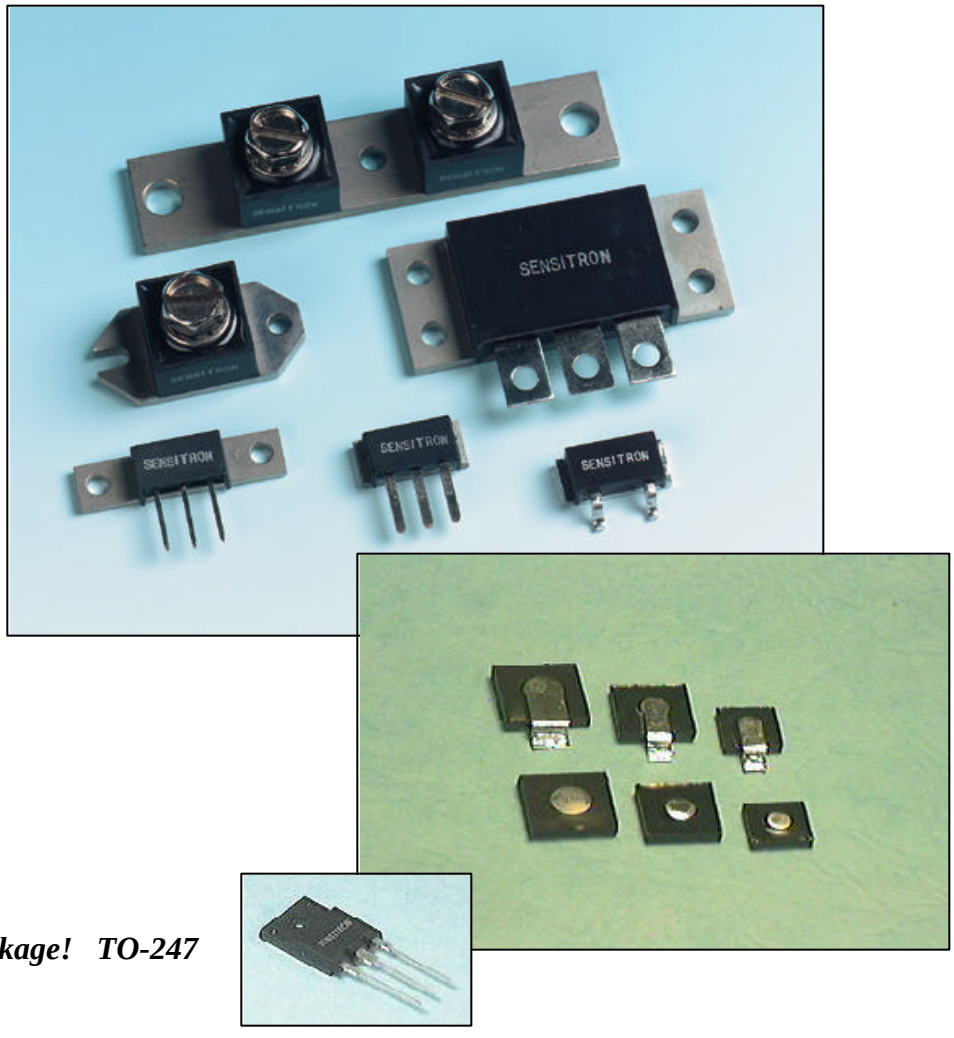
SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 890, REV. A

Plastic Schottky Rectifier Product Catalog



New Package! TO-247

***Featuring**: High Current/Leaded and Surface Mount Package Types*

Contents

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Sensitron Semiconductor reserves the right to change product design and/or specifications to any product described in this catalog without prior notice.

SENSITRON SEMICONDUCTOR
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General Information

Company

- Privately held company, founded in 1969.

Deer Park, New York

- 23,000 Square Foot Facility.
- 2,000 Square Foot 'Class 100,000' Wafer Fabrication Clean Room.
- 2,700 Square Foot 'Class 10,000' Microelectronics Manufacturing Clean Room.

North Chelmsford, Massachusetts

- 2,000 Square Foot Facility.

Quality Sysytems

- Registered to ISO-9001

Thank you for your interest in Sensitron's products.

This product catalog was designed to provide you with general product information and electrical characteristics for Sensitron's Plastic Schottky Rectifiers that are intended for use in the industrial/commercial industry. For more information, including complete data sheets, please contact the factory or visit our web site at www.sensitron.com.

About Sensitron Schottky Products…

▼ *Schottky chips are manufactured in our High-Rel wafer fabrication facility to assure guaranteed high quality!*

▼ *Sensitron Schottky devices offer very high reverse avalanche and forward current surge capabilities.*

▼ *100/150V Schottky devices are especially designed to give ultra-low reverse leakage at high temperatures, which can allow for reduced heat sink dimensions.*

▼ *Sensitron offers very competitive pricing, especially with lower quantity requirements.*

▼ *Sensitron offers many IRÒ equivalent plastic Schottky devices, from 60A to 400A. Direct equivalent MotorolaÒ and MicrosemiÒ devices are available as well.*

▼ *PRM3 lead dimensions are consistent with comparable 60 Amp industry standard devices, to fit existing thru-holes.*

▼ *Dependable engineering support is available to help you meet your special application needs!*

WHY SENSITRON ?…

- Partnership With Our Customers
- Committed to Success
- Total Focus On:
  - *Customers' Needs*
  - *High Reliability Products*
  - *Highest Quality Standards*
  - *On-Time Delivery*
  - *Competitive Pricing*

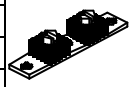
…TOTAL CUSTOMER SATISFACTION !

HIGH CURRENT PLASTIC POWER SCHOTTKY RECTIFIER MODULES

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAXIMUM AVERAGE DC OUTPUT CURRENT	PEAK 1 CYCLE SURGE CURRENT (8.3 ms) PER LEG	MAXIMUM PEAK FORWARD VOLTAGE PER LEG (PULSED)			MAXIMUM REVERSE CURRENT PER LEG @ PIV		MAXIMUM JUNCTION CAP. PER LEG V_r = 5V	MAXIMUM THERMAL RESIS. $R_{\theta JC}$	MAX. T_J	PKG. STYLE
				25°C	125°C	@ I	25°C	125°C				
	Volts	Amps	Amps	V	V	A	mA	mA	pF	°C/W	°C	
120NQ035	35	120	1850	0.57	0.52	120	10	400	5200	0.40	150	
120NQ040	40	120	1850	0.57	0.52	120	10	400	5200	0.40	150	
120NQ045	45	120	1850	0.57	0.52	120	10	400	5200	0.40	150	
121NQ035	35	120	2650	0.65	0.56	120	10	90	7400	0.40	175	
121NQ040	40	120	2650	0.65	0.56	120	10	90	5200	0.40	175	
121NQ045	45	120	2650	0.65	0.56	120	10	90	5200	0.40	175	
122NQ030	30	120	2850	0.49	0.41	120	10	560	7400	0.40	150	
123NQ080	80	120	2500	0.91	0.74	120	3.0	40	2650	0.40	175	
123NQ100	100	120	2500	0.91	0.74	120	3.0	40	2650	0.40	175	
124NQ035	35	120	2850	0.54	0.52①	120	10	1200	5200	0.40	125	
124NQ040	40	120	2850	0.54	0.52①	120	10	1200	5200	0.40	125	
124NQ045	45	120	2850	0.54	0.52①	120	10	1200	5200	0.40	125	
125NQ015	15	120	2050	0.39	0.33②	120	40	2000 ①	7700	0.40	100	
129NQ135	135	120	2500	1.07	0.74	120	3.0	45	3000	0.40	175	
129NQ150	150	120	2500	1.07	0.74	120	3.0	45	3000	0.40	175	
180NQ035	35	180	3450	0.60	0.56	180	15	600	7700	0.30	150	
180NQ040	40	180	3450	0.60	0.56	180	15	600	7700	0.30	150	
180NQ045	45	180	3450	0.60	0.56	180	15	600	7700	0.30	150	PRM1
181NQ035	35	180	3000	0.66	0.56	180	15	135	7800	0.30	175	
181NQ040	40	180	3000	0.66	0.56	180	15	135	7800	0.30	175	
181NQ045	45	180	3000	0.66	0.56	180	15	135	7800	0.30	175	
182NQ030	30	180	4150	0.51	0.41	180	15	840	11100	0.30	150	
183NQ080	80	180	3000	0.95	0.75	180	4.5	60	4150	0.30	175	
183NQ100	100	180	3000	0.95	0.75	180	4.5	60	4150	0.30	175	
185NQ015	15	180	2700	0.40	0.34②	180	60	3000 ①	12300	0.30	100	
189NQ135	135	180	3000	1.07	0.74	180	4.5	65	4500	0.30	175	
189NQ150	150	180	3000	1.07	0.74	180	4.5	65	4500	0.30	175	
240NQ020	20	240	3600	0.48	0.35	240	24	2600	16000	0.20	150	
240NQ035	35	240	4050	0.61	0.55	240	20	800	10300	0.20	150	
240NQ040	40	240	4050	0.61	0.55	240	20	800	10300	0.20	150	
240NQ045	45	240	4050	0.61	0.55	240	20	800	10300	0.20	150	
241NQ035	35	240	4100	0.69	0.59	240	20	180	10300	0.20	175	
241NQ040	40	240	4100	0.69	0.59	240	20	180	10300	0.20	175	
241NQ045	45	240	4100	0.69	0.59	240	20	180	10300	0.20	175	
242NQ030	30	240	3600	0.51	0.42	240	20	1120	14800	0.20	150	
243NQ080	80	240	3950	0.86	0.72	240	6.0	80	5500	0.20	175	
243NQ100	100	240	3950	0.86	0.72	240	6.0	80	5500	0.20	175	
244NQ035	35	240	4550	0.55	0.52①	240	20	2400	10300	0.20	125	
244NQ040	40	240	4550	0.55	0.52①	240	20	2400	10300	0.20	125	
244NQ045	45	240	4550	0.55	0.52①	240	20	2400	10300	0.20	125	
245NQ015	15	240	3600	0.40	0.34②	240	80	4000 ①	15800	0.20	100	
249NQ135	135	240	3950	1.07	0.74	240	6.0	85	6000	0.20	175	
249NQ150	150	240	3950	1.07	0.74	240	6.0	85	6000	0.20	175	

① T_J = 100 °C ② T_J = 75 °C. Note: All Schottkys are also available as Reverse Polarity. Just add "R" to the end of the part number.

HIGH CURRENT PLASTIC POWER SCHOTTKY RECTIFIER MODULES

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAXIMUM AVERAGE DC OUTPUT CURRENT	PEAK 1 CYCLE SURGE CURRENT (8.3 ms) PER LEG	MAXIMUM PEAK FORWARD VOLTAGE PER LEG (PULSED)			MAXIMUM REVERSE CURRENT PER LEG @ PIV		MAXIMUM JUNCTION CAP. PER LEG V_r = 5V	MAXIMUM THERMAL RESIS. $R_{\theta JC}$	MAX. T_J	PKG. STYLE
				25°C	125°C	@ I	25°C	125°C				
	Volts	Amps	Amps	V	V	A	mA	mA	pF	°C/W	°C	
200CNQ035	35	200	1850	0.54	0.49	100	10	400	5200	0.20	150	
200CNQ040	40	200	1850	0.54	0.49	100	10	400	5200	0.20	150	
200CNQ045	45	200	1850	0.54	0.49	100	10	400	5200	0.20	150	
201CNQ035	35	200	2650	0.67	0.58	100	10	90	5200	0.20	175	
201CNQ040	40	200	2650	0.67	0.58	100	10	90	5200	0.20	175	
201CNQ045	45	200	2650	0.67	0.58	100	10	90	5200	0.20	175	
203CNQ080	80	200	2500	0.86	0.70	100	3.0	40	2650	0.20	175	
203CNQ100	100	200	2500	0.86	0.70	100	3.0	40	2650	0.20	175	
209CNQ135	135	200	2500	1.03	0.71	100	3.0	45	3000	0.20	175	
209CNQ150	150	200	2500	1.03	0.71	100	3.0	45	3000	0.20	175	
220CNQ030	30	220	2850	0.48	0.40	110	10	560	7400	0.20	150	
224CNQ035	35	220	2850	0.52	0.50①	110	10	1200	5200	0.20	125	
224CNQ040	40	220	2850	0.52	0.50①	110	10	1200	5200	0.20	125	
224CNQ045	45	220	2850	0.52	0.50①	110	10	1200	5200	0.20	125	
225CNQ015	15	220	2050	0.38	0.32②	110	40	2000①	7700	0.20	100	PRM4
301CNQ035	35	300	3800	0.69	0.59	150	15	135	7800	0.20	175	
301CNQ040	40	300	3800	0.69	0.59	150	15	135	7800	0.15	175	
301CNQ045	45	300	3800	0.69	0.59	150	15	135	7800	0.15	175	
303CNQ080	80	300	3000	0.91	0.72	150	4.5	60	4150	0.15	175	
303CNQ100	100	300	3000	0.91	0.72	150	4.5	60	4150	0.15	175	
309CNQ135	135	300	3000	1.03	0.71	150	4.5	65	4500	0.15	175	
309CNQ150	150	300	3000	1.03	0.71	150	4.5	65	4500	0.15	175	
400CNQ035	35	400	4050	0.57	0.52	200	20	800	10300	0.10	150	
400CNQ040	40	400	4050	0.57	0.52	200	20	800	10300	0.10	150	
400CNQ045	45	400	4050	0.57	0.52	200	20	800	10300	0.10	150	
401CNQ035	35	400	4100	0.67	0.56	200	20	180	10300	0.10	175	
401CNQ040	40	400	4100	0.67	0.56	200	20	180	10300	0.10	175	
401CNQ045	45	400	4100	0.67	0.56	200	20	180	10300	0.10	175	
403CNQ080	80	400	3950	0.83	0.69	200	6.0	80	5500	0.10	175	
403CNQ100	100	400	3950	0.83	0.69	200	6.0	80	5500	0.10	175	
409CNQ135	135	400	3950	1.03	0.72	200	6.0	85	6000	0.10	175	
409CNQ150	150	400	3950	1.03	0.72	200	6.0	85	6000	0.10	175	
440CNQ030	30	440	3600	0.50	0.41	220	20	1120	14800	0.10	150	
444CNQ035	35	440	4550	0.53	0.51①	220	20	2400	10300	0.10	125	
444CNQ040	40	440	4550	0.53	0.51①	220	20	2400	10300	0.10	125	
444CNQ045	45	440	4550	0.53	0.51①	220	20	2400	10300	0.10	125	
160CMQ035	35	160	900	0.64	0.60	80	5.0	200	2600	0.50	150	
160CMQ040	40	160	900	0.64	0.60	80	5.0	200	2600	0.50	150	
160CMQ045	45	160	900	0.64	0.60	80	5.0	200	2600	0.50	150	
161CMQ035	35	160	1050	0.71	0.63	80	5.0	45	2600	0.50	175	
161CMQ040	40	160	1050	0.71	0.63	80	5.0	45	2600	0.50	175	
161CMQ045	45	160	1050	0.71	0.63	80	5.0	45	2600	0.50	175	
162CMQ030	30	160	1150	0.53	0.46	80	5.0	280	3700	0.50	150	TO-249AA
163CMQ080	80	160	950	0.98	0.80	80	1.5	20	1400	0.50	175	
163CMQ100	100	160	950	0.98	0.80	80	1.5	20	1400	0.50	175	
169CMQ135	135	160	950	1.05	0.85	80	1.5	21	1300	0.50	175	
169CMQ150	150	160	950	1.05	0.85	80	1.5	21	1300	0.50	175	

① T_J = 100 °C ② T_J = 75 °C. Note: All Schottkys are also available as Reverse Polarity. Just add "R" to the end of the part number.

HIGH CURRENT PLASTIC POWER SCHOTTKY RECTIFIER MODULES

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAXIMUM AVERAGE DC OUTPUT CURRENT	PEAK 1 CYCLE SURGE CURRENT (8.3 ms) PER LEG	MAXIMUM PEAK FORWARD VOLTAGE PER LEG (PULSED)			MAXIMUM REVERSE CURRENT PER LEG @ PIV		MAXIMUM JUNCTION CAP. PER LEG V_r = 5V	MAXIMUM THERMAL RESIS. $R_{\theta JC}$	MAX. T_J	PKG. STYLE
				25°C	125°C	@ I	25°C	125°C				
	Volts	Amps	Amps	V	V	A	mA	mA	pF	°C/W	°C	
80CNQ035	35	80	900	0.52	0.47	40	5.0	200	2600	0.42	150	
80CNQ040	40	80	900	0.52	0.47	40	5.0	200	2600	0.42	150	
80CNQ045	45	80	900	0.52	0.47	40	5.0	200	2600	0.42	150	
81CNQ035	35	80	950	0.60	0.54	40	5.0	45	2600	0.42	175	
81CNQ040	40	80	950	0.60	0.54	40	5.0	45	2600	0.42	175	
81CNQ045	45	80	950	0.60	0.54	40	5.0	45	2600	0.42	175	
82CNQ030	30	80	1050	0.47	0.37	40	5.0	280	3700	0.42	150	
83CNQ080	80	80	850	0.81	0.67	40	1.5	20	1400	0.42	175	
83CNQ100	100	80	850	0.81	0.67	40	1.5	20	1400	0.42	175	PRM2
84CNQ035	35	80	750	0.49	0.44①	40	5.0	600	2600	0.42	125	
84CNQ040	40	80	750	0.49	0.44①	40	5.0	600	2600	0.42	125	
84CNQ045	45	80	750	0.49	0.44①	40	5.0	600	2600	0.42	125	
85CNQ015	15	80	1000	0.36	0.32②	40	20	1000①	3600	0.42	100	
86CNQ200	200	80	700	0.99	0.69	40	1.1	24	900	0.42	175	
87CNQ020	20	80	1300	0.45	0.32	40	5.5	550	6500	0.42	150	
88CNQ060	60	80	950	0.58	0.56	40	0.64	240	5200	0.42	175	
89CNQ135	135	80	708	0.99	0.69	40	1.5	21	1300	0.42	175	
89CNQ150	150	80	708	0.99	0.69	40	1.5	21	1300	0.42	175	
80CNQ045SL	45	80	900	0.52	0.47	40	5.0	200	2600	0.42	150	
81CNQ045SL	45	80	950	0.60	0.54	40	5.0	45	2600	0.42	175	
82CNQ030SL	30	80	1050	0.47	0.37	40	5.0	280	3700	0.42	150	
83CNQ100SL	100	80	850	0.81	0.67	40	1.5	20	1400	0.42	175	
84CNQ045SL	45	80	750	0.49	0.44①	40	5.0	600	2600	0.42	125	
85CNQ015SL	15	80	1000	0.36	0.32②	40	20	1000①	3600	0.42	100	PRM2-SL
89CNQ135SL	135	80	708	0.99	0.69	40	1.5	21	1300	0.42	175	
89CNQ150SL	150	80	708	0.99	0.69	40	1.5	21	1300	0.42	175	
80CNQ045SM	45	80	900	0.52	0.47	40	5.0	200	2600	0.42	150	
81CNQ045SM	45	80	950	0.60	0.54	40	5.0	45	2600	0.42	175	
82CNQ030SM	30	80	1050	0.47	0.37	40	5.0	280	3700	0.42	150	
83CNQ100SM	100	80	850	0.81	0.67	40	1.5	20	1400	0.42	175	
84CNQ045SM	45	80	750	0.49	0.44①	40	5.0	600	2600	0.42	125	
85CNQ015SM	15	80	1000	0.36	0.32②	40	20	1000①	3600	0.42	100	PRM2-SM
89CNQ135SM	135	80	708	0.99	0.69	40	1.5	21	1300	0.42	175	
89CNQ150SM	150	80	708	0.99	0.69	40	1.5	21	1300	0.42	175	
60CNQ035	35	60	1000	0.52	0.44	30	5.0	200	2600	0.42	150	
60CNQ040	40	60	1000	0.52	0.44	30	5.0	200	2600	0.42	150	
60CNQ045	45	60	1000	0.52	0.44	30	5.0	200	2600	0.42	150	
61CNQ035	35	60	1000	0.56	0.49	30	5.0	45	2600	0.42	175	
61CNQ040	40	60	1000	0.56	0.49	30	5.0	45	2600	0.42	175	
61CNQ045	45	60	1000	0.56	0.49	30	5.0	45	2600	0.42	175	PRM3
62CNQ030	30	60	950	0.46	0.35	30	5.0	280	3700	0.42	150	
63CNQ080	80	60	750	0.77	0.64	30	1.5	20	1400	0.42	175	
63CNQ100	100	60	750	0.77	0.64	30	1.5	20	1400	0.42	175	
69CNQ135	135	60	708	0.87	0.67	30	1.5	21	1300	0.42	175	
69CNQ150	150	60	708	0.87	0.67	30	1.5	21	1300	0.42	175	

① T_J = 100 °C ② T_J = 75 °C. Note: All Schottkys are also available as Reverse Polarity. Just add "R" to the end of the part number.

HIGH CURRENT PLASTIC POWER SCHOTTKY RECTIFIER MODULES and DIODES

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAXIMUM AVERAGE DC OUTPUT CURRENT	PEAK 1 CYCLE SURGE CURRENT (8.3 ms) PER LEG	MAXIMUM PEAK FORWARD VOLTAGE PER LEG (PULSED)			MAXIMUM REVERSE CURRENT PER LEG @ PIV		MAXIMUM JUNCTION CAP. PER LEG V_r = 5V	MAXIMUM THERMAL RESIS. $R_{\theta JC}$	MAX. T_J	PKG. STYLE
				25°C	125°C	@ I	25°C	125°C				
	Volts	Amps	Amps	V	V	A	mA	mA	pF	°C/W	°C	
60CNQ045SL	45	60	1000	0.52	0.44	30	5.0	200	2600	0.42	150	 PRM3-SL
61CNQ045SL	45	60	1000	0.56	0.49	30	5.0	45	2600	0.42	175	
62CNQ030SL	30	60	950	0.46	0.35	30	5.0	280	3700	0.42	150	
63CNQ100SL	100	60	750	0.77	0.64	30	1.5	20	1400	0.42	175	
69CNQ135SL	135	60	708	0.87	0.67	30	1.5	21	1300	0.42	175	
69CNQ150SL	150	60	708	0.87	0.67	30	1.5	21	1300	0.42	175	
60CNQ045SM	45	60	1000	0.52	0.44	30	5.0	200	2600	0.42	150	 PRM3-SM
61CNQ045SM	45	60	1000	0.56	0.49	30	5.0	45	2600	0.42	175	
62CNQ030SM	30	60	950	0.46	0.35	30	5.0	280	3700	0.42	150	
63CNQ100SM	100	60	750	0.77	0.64	30	1.5	20	1400	0.42	175	
69CNQ135SM	135	60	708	0.87	0.67	30	1.5	21	1300	0.42	175	
69CNQ150SM	150	60	708	0.87	0.67	30	1.5	21	1300	0.42	175	
SPD115468	15	30	570	0.37	0.33②	30	14	680 ①	2400	0.50	100	 SPD-1
SPD115417	20	30	570	0.45	0.32	30	4.0	440	2700	0.50	150	
SPD115411	30	30	570	0.49	0.39	30	4.0	200	2200	0.50	150	
SPD115412	45	30	570	0.56	0.51	30	3.0	140	1600	0.50	150	
SPD115422	45	30	570	0.64	0.57	30	0.80	30	1600	0.50	175	
SPD115434	100	30	570	0.84	0.68	30	0.02	2.0	1000	0.50	175	
SPD115468A	15	30	570	0.37	0.33②	30	14	680 ①	2400	0.50	100	 SPD-1A
SPD115417A	20	30	570	0.45	0.32	30	4.0	440	2700	0.50	150	
SPD115411A	30	30	570	0.49	0.39	30	4.0	200	2200	0.50	150	
SPD115412A	45	30	570	0.56	0.51	30	3.0	140	1600	0.50	150	
SPD115422A	45	30	570	0.64	0.57	30	0.80	30	1600	0.50	175	
SPD115434A	100	30	570	0.84	0.68	30	0.02	2.0	1000	0.50	175	
SPD114568	15	60	860	0.41	0.37②	60	20	1000 ①	3600	0.37	100	 SPD-2
SPD114517	20	60	860	0.48	0.35	60	6.0	660	4050	0.37	150	
SPD114511	30	60	860	0.53	0.43	60	6.0	300	3300	0.37	150	
SPD114512	45	60	860	0.60	0.57	60	4.5	210	2400	0.37	150	
SPD114522	45	60	860	0.66	0.59	60	1.2	45	2400	0.37	175	
SPD114534	100	60	860	0.87	0.72	60	0.03	3.0	1500	0.37	175	
SPD114568A	15	60	860	0.41	0.37②	60	20	1000 ①	3600	0.37	100	 SPD-2A
SPD114517A	20	60	860	0.48	0.35	60	6.0	660	4050	0.37	150	
SPD114511A	30	60	860	0.53	0.43	60	6.0	300	3300	0.37	150	
SPD114512A	45	60	860	0.60	0.57	60	4.5	210	2400	0.37	150	
SPD114522A	45	60	860	0.66	0.59	60	1.2	45	2400	0.37	175	
SPD114534A	100	60	860	0.87	0.72	60	0.03	3.0	1500	0.37	175	
SPD165668	15	120	1650	0.41	0.37②	120	40	2000 ①	7200	0.20	100	 SPD-3
SPD165617	20	120	1650	0.48	0.35	120	12	1320	8100	0.20	150	
SPD165611	30	120	1650	0.53	0.43	120	12	600	6600	0.20	150	
SPD165612	45	120	1650	0.60	0.57	120	9.0	420	4800	0.20	150	
SPD165622	45	120	1650	0.66	0.59	120	2.4	90	4800	0.20	175	
SPD165634	100	120	1650	0.87	0.72	120	0.06	6.0	3000	0.20	175	
SPD165668B	15	120	1650	0.41	0.37②	120	40	2000 ①	7200	0.20	100	 SPD-3B
SPD165617B	20	120	1650	0.48	0.35	120	12	1320	8100	0.20	150	
SPD165611B	30	120	1650	0.53	0.43	120	12	600	6600	0.20	150	
SPD165612B	45	120	1650	0.60	0.57	120	9.0	420	4800	0.20	150	
SPD165622B	45	120	1650	0.66	0.59	120	2.4	90	4800	0.20	175	
SPD165634B	100	120	1650	0.87	0.72	120	0.06	6.0	3000	0.20	175	

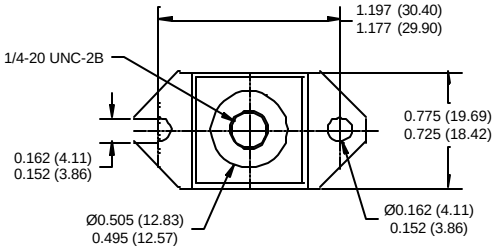
① T_J = 100 °C ② T_J = 75 °C. Note: All Schottkys are also available as Reverse Polarity. Just add "R" to the end of the part number.

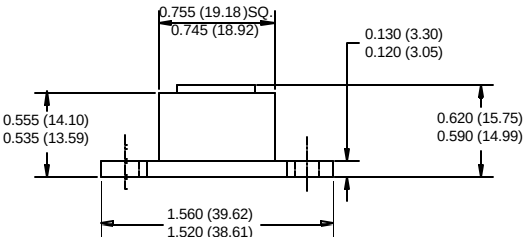
HIGH CURRENT PLASTIC POWER SCHOTTKY RECTIFIER MODULES

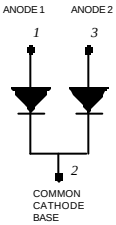
TYPE NUMBER	PEAK INVERSE VOLTAGE	MAXIMUM AVERAGE DC OUTPUT CURRENT	PEAK 1 CYCLE SURGE CURRENT (8.3 ms) PER LEG	MAXIMUM PEAK FORWARD VOLTAGE PER LEG (PULSED)			MAXIMUM REVERSE CURRENT PER LEG @ PIV		MAXIMUM JUNCTION CAP. PER LEG V_r = 5V	MAXIMUM THERMAL RESIS. $R_{\theta JC}$	MAX. T_J	PKG. STYLE
				25°C	125°C	@ I	25°C	125°C				
	Volts	Amps	Amps	V	V	A	mA	mA	pF	°C/W	°C	
30CPQ080	80	30	280	0.86	0.67	15	0.55	7.0	500	1.10	175	 TO-247
30CPQ100	100	30	280	0.86	0.67	15	0.55	7.0	500	1.10	175	
30CPQ135	135	30	280	0.91	0.72	15	0.50	15	500	1.10	175	
30CPQ150	150	30	280	0.91	0.72	15	0.50	15	500	1.10	175	
40CPQ080	80	40	360	0.79	0.63	20	1.25	15	900	0.63	175	
40CPQ100	100	40	360	0.79	0.63	20	1.25	15	900	0.63	175	
40CPQ135	135	40	360	0.84	0.68	20	1.50	15	900	0.63	175	
40CPQ150	150	40	360	0.84	0.68	20	1.50	15	900	0.63	175	

Note: All Schottkys are also available as Reverse Polarity. Just add "R" to the end of the part number.

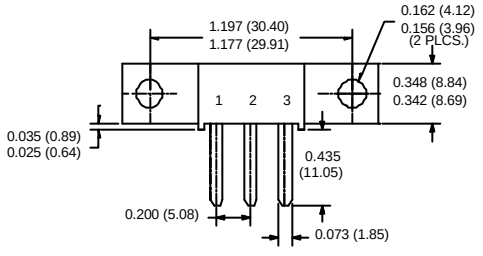
PRM1

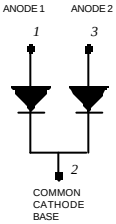


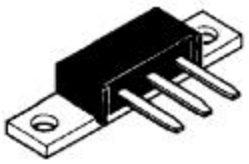


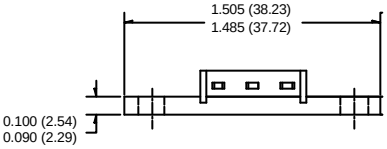


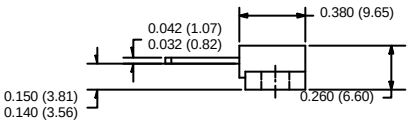
PRM2



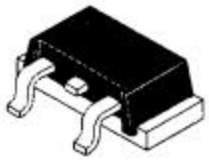


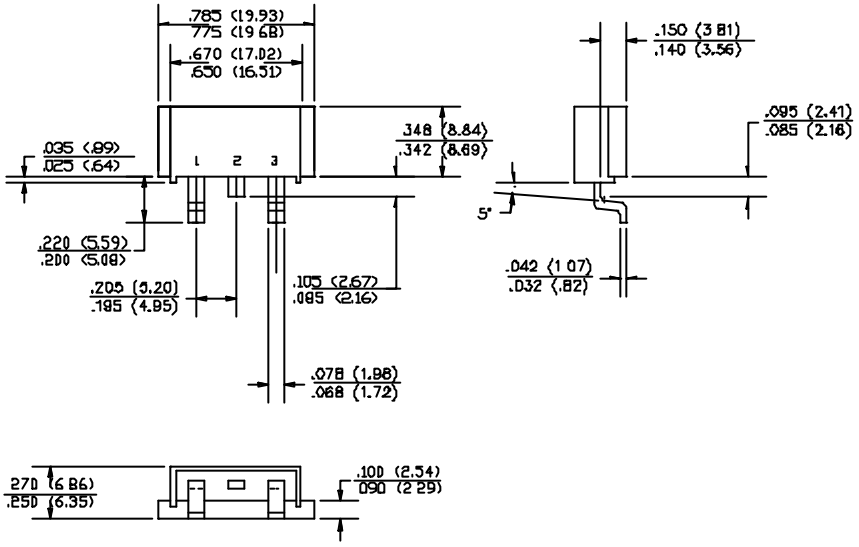


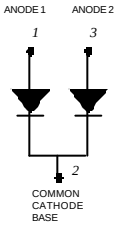




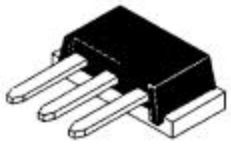
PRM2-SL

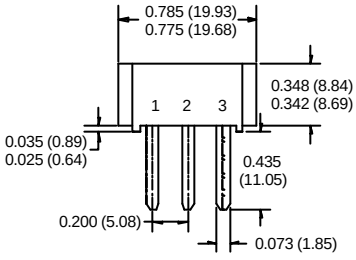


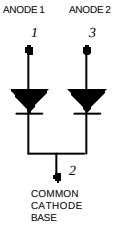


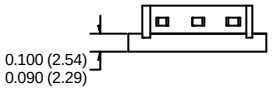


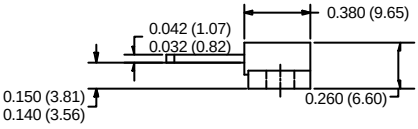
PRM2-SM



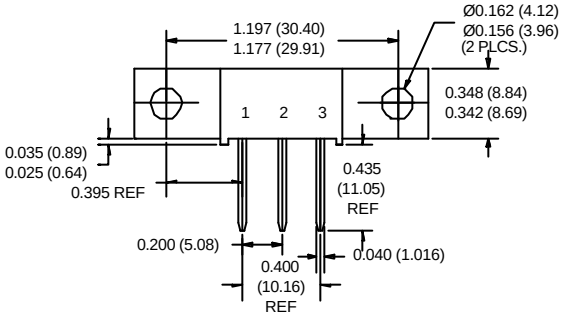


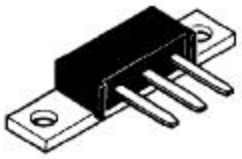


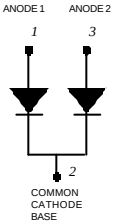


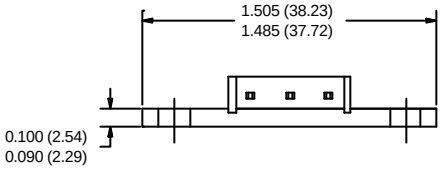


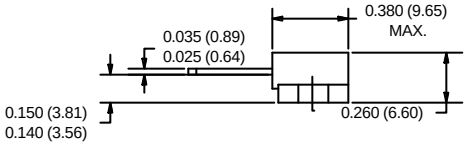
PRM3


1.197 (30.40)
1.177 (29.91)
Ø0.162 (4.12)
Ø0.156 (3.96)
(2 PLCS.)
0.348 (8.84)
0.342 (8.69)
1 2 3
0.035 (0.89)
0.025 (0.64)
0.395 REF
0.435
(11.05)
REF
0.200 (5.08)
0.040 (1.016)
0.400
(10.16)
REF

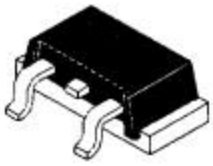


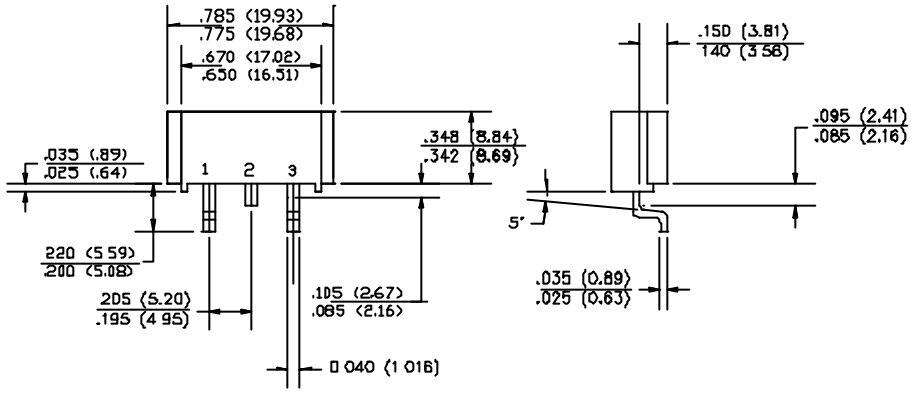

ANODE 1
ANODE 2
1
3
2
COMMON
CATHODE
BASE

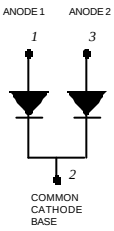

1.505 (38.23)
1.485 (37.72)
0.100 (2.54)
0.090 (2.29)


0.380 (9.65)
MAX.
0.035 (0.89)
0.025 (0.64)
0.150 (3.81)
0.140 (3.56)
0.260 (6.60)

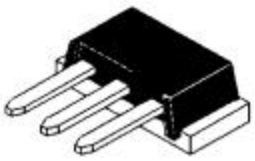
PRM3-SL

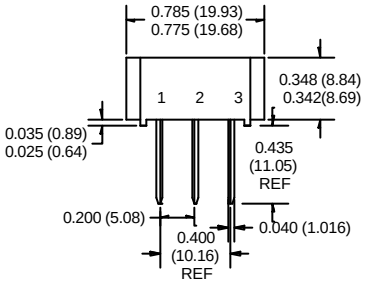


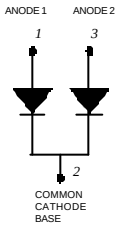

.785 (19.93)
.775 (19.68)
.670 (17.02)
.650 (16.51)
.035 (.89)
.025 (.64)
.348 (8.84)
.342 (8.69)
1 2 3
.220 (5.59)
.200 (5.08)
.205 (5.20)
.195 (4.95)
.105 (2.67)
.085 (2.16)
0.040 (1.016)
.150 (3.81)
.140 (3.56)
.095 (2.41)
.085 (2.16)
5°
.035 (0.89)
.025 (0.63)
.270 (6.86)
.250 (6.35)
.100 (2.54)
.090 (2.29)

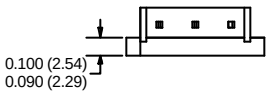

ANODE 1
ANODE 2
1
3
2
COMMON
CATHODE
BASE

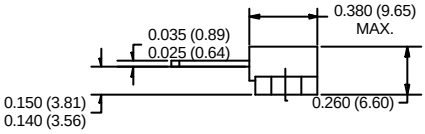
PRM3-SM



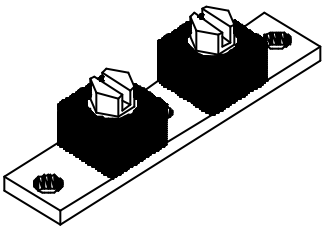

0.785 (19.93)
0.775 (19.68)
0.348 (8.84)
0.342(8.69)
1 2 3
0.035 (0.89)
0.025 (0.64)
0.435
(11.05)
REF
0.200 (5.08)
0.040 (1.016)
0.400
(10.16)
REF

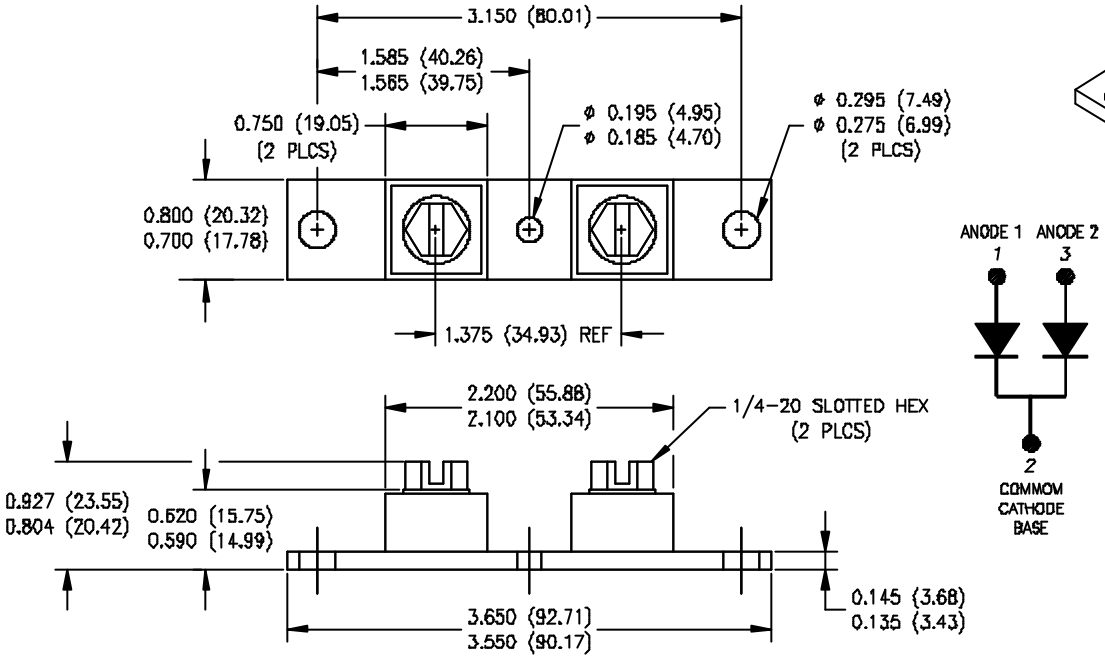

ANODE 1
ANODE 2
1
3
2
COMMON
CATHODE
BASE


0.100 (2.54)
0.090 (2.29)


0.380 (9.65)
MAX.
0.035 (0.89)
0.025 (0.64)
0.150 (3.81)
0.140 (3.56)
0.260 (6.60)

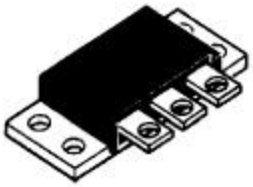
PRM4

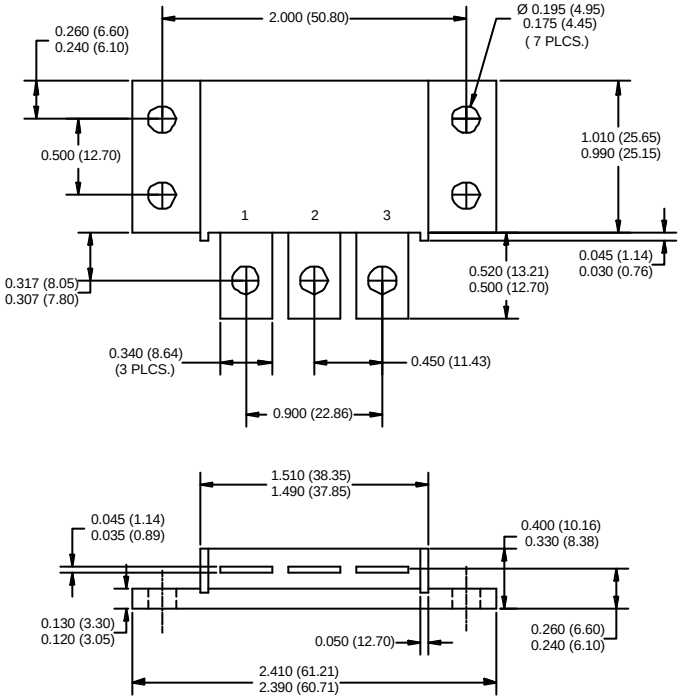


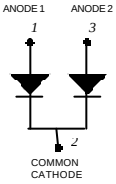

3.150 (80.01)
1.585 (40.26)
1.565 (39.75)
0.750 (19.05)
(2 PLCS)
ø 0.195 (4.95)
ø 0.185 (4.70)
ø 0.295 (7.49)
ø 0.275 (6.99)
(2 PLCS)
0.800 (20.32)
0.700 (17.78)
1.375 (34.93) REF
2.200 (55.88)
2.100 (53.34)
1/4-20 SLOTTED HEX
(2 PLCS)
0.927 (23.55)
0.804 (20.42)
0.620 (15.75)
0.590 (14.99)
0.145 (3.68)
0.135 (3.43)
3.650 (92.71)
3.550 (90.17)

ANODE 1 ANODE 2
1
3
2
COMMON
CATHODE
BASE

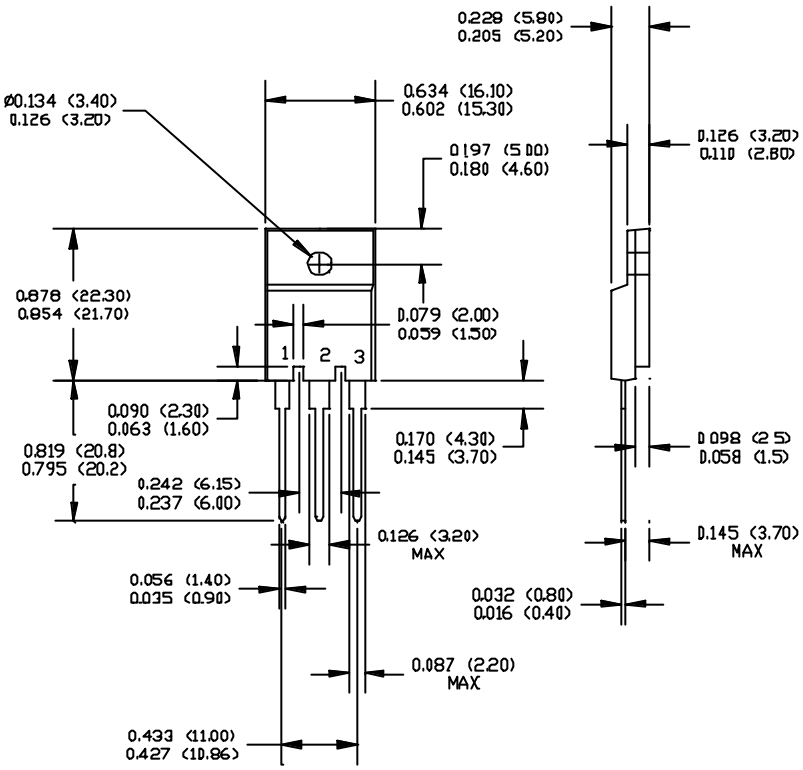
TO-249AA

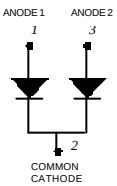




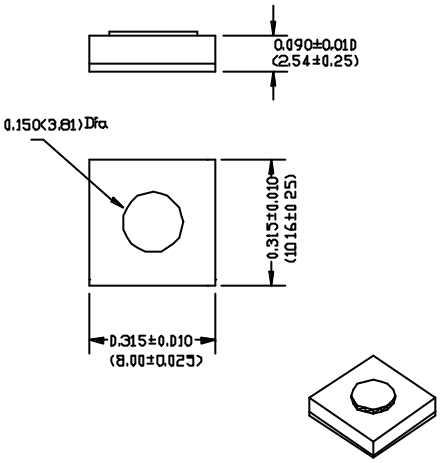


TO-247

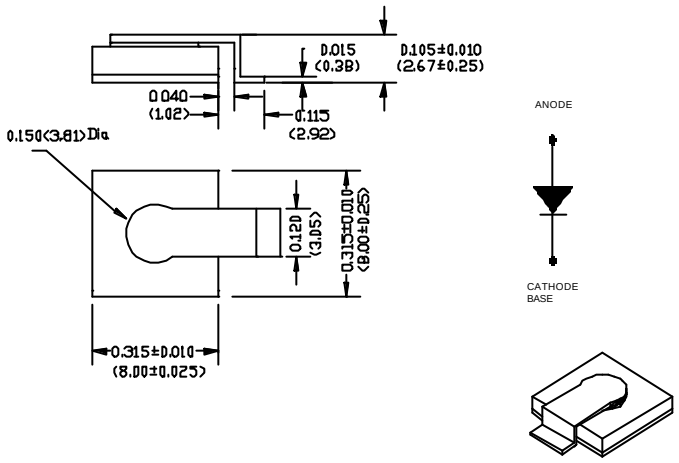




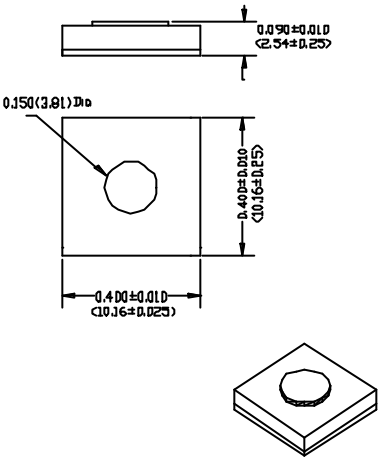
SPD-1



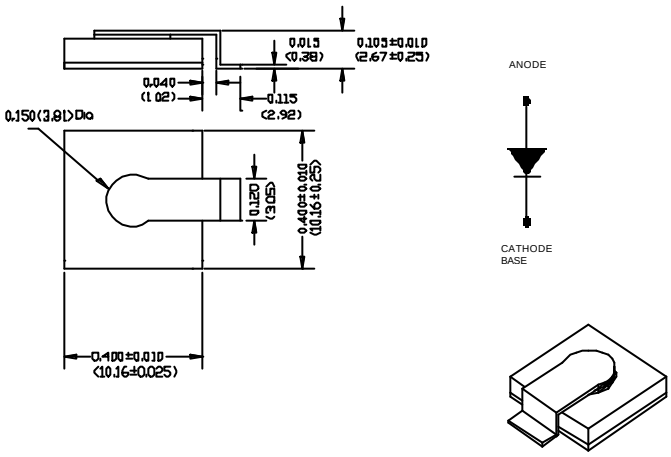
SPD-1A



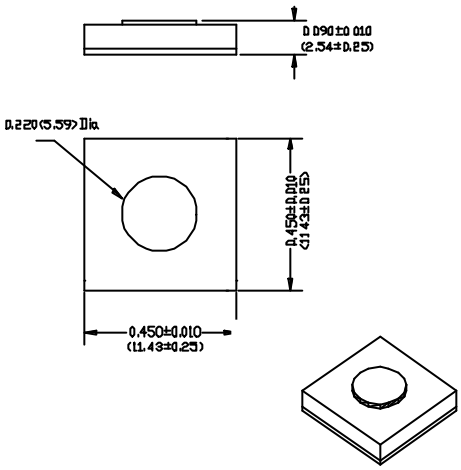
SPD-2



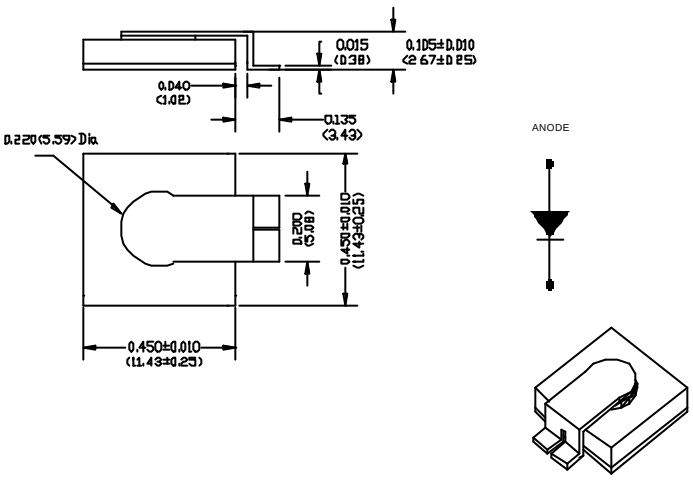
SPD-2A



SPD-3



SPD-3B



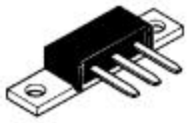
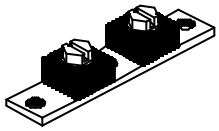
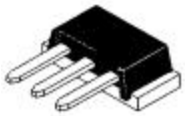
Schottky Plastic Parts Cross-Reference List

(for Microsemi and Motorola)

Sensitron offers exact replacement parts with that of International Rectifier®.

Microsemi Part Number	***Sensitron Part Number***	*Motorola Part Number*	***Sensitron Part Number***
FST8035	**80CNQ035**	MBR12035CT	**201CNQ035**
FST8040	**80CNQ040**	MBR12045CT	**201CNQ045**
FST8045	**80CNQ045**	MBR16035CT	**160CMQ035**
FST8050	**83CNQ080**	MBR16045CT	**160CMQ045**
FST8130	**82CNQ030**	MBR16050CT	**163CMQ080**
FST8135	**80CNQ035**	MBR20015CTL	**200CNQ030**
FST10030	**162CMQ030**	MBR20020CTL	**200CNQ030**
FST10035	**161CMQ035**	MBR20025CTL	**200CNQ030**
FST12030	**162CMQ030**	MBR20030CTL	**200CNQ030**
FST12035	**161CMQ035**	MBR20035CT	**201CNQ035**
FST16035	**160CMQ035**	MBR20045CT	**201CNQ045**
FST16040	**160CMQ040**	MBR20050CT	**201CNQ080**
FST16045	**160CMQ045**	MBR20060CT	**203CNQ080**
FST16050	**163CMQ080**	MBR30035CT	**301CNQ035**
FST17135	**160CMQ035**	MBR30045CT	**301CNQ045**
FST17140	**160CMQ040**	MBR30050CT	**301CNQ080**
FST17145	**160CMQ045**		
FST17150	**163CMQ080**		
FST19035	**160CMQ035**		
FST19040	**160CMQ040**		
FST19045	**160CMQ045**		
FST19050	**163CMQ080**		
FST20035	**200CNQ035**		
FST20040	**200CNQ040**		
FST20045	**200CNQ045**		
FST20050	**200CNQ080**		
FST30035	**301CNQ035**		
FST30040	**301CNQ040**		
FST30045	**301CNQ045**		
FST30050	**303CNQ080**		
FST3080	**30CPQ080**		
FST5080	**40CPQ080**		
CPT12035	**200CNQ035**		
CPT12040	**200CNQ040**		
CPT12045	**200CNQ045**		
CPT12050	**203CNQ080**		
CPT20035	**200CNQ035**		
CPT20040	**200CNQ040**		
CPT20045	**200CNQ045**		
CPT20050	**203CNQ080**		
CPT20130	**220CNQ030**		
CPT20135	**201CNQ035**		
CPT30035	**301CNQ035**		
CPT30040	**301CNQ040**		
CPT30050	**303CNQ080**		
CPT40035	**400CNQ035**		
CPT40040	**400CNQ040**		
CPT40045	**400CNQ045**		
CPT40050	**403CNQ080**		
CPT40135	**400CNQ035**		

Quick Reference Chart for Plastic Schottky Modules

Part Number / Package	Part Number / Package	Part Number / Package
120NQ035 120NQ040 120NQ045 121NQ035 121NQ040 121NQ045 122NQ030 123NQ080 123NQ100 124NQ035 124NQ040 124NQ045 125NQ015 129NQ135 129NQ150 180NQ035 180NQ040 180NQ045 181NQ035 181NQ040 181NQ045 182NQ030 183NQ080 183NQ100 185NQ015 189NQ135 189NQ150 249NQ135 249NQ150 240NQ020 240NQ035 240NQ040 240NQ045 241NQ035 241NQ040 241NQ045 242NQ030 243NQ080 243NQ100 244NQ035 244NQ040 244NQ045 245NQ015  **PRM1**	80CNQ035 80CNQ040 80CNQ045 81CNQ035 81CNQ040 81CNQ045 82CNQ030 83CNQ080 83CNQ100 84CNQ035 84CNQ040 84CNQ045 85CNQ015 86CNQ200 87CNQ020 88CNQ060 89CNQ135 89CNQ150  **PRM2**	200CNQ035 200CNQ040 200CNQ045 201CNQ035 201CNQ040 201CNQ045 203CNQ080 203CNQ100 209CNQ135 209CNQ150 220CNQ030 224CNQ035 224CNQ040 224CNQ045 225CNQ015 301CNQ035 301CNQ040 301CNQ045 303CNQ080 303CNQ100 309CNQ135 309CNQ150 400CNQ035 400CNQ040 400CNQ045 401CNQ035 401CNQ040 401CNQ045 403CNQ080 403CNQ100 409CNQ135 409CNQ150 440CNQ030 444CNQ035 444CNQ040 444CNQ045  **PRM4**
	80CNQ045SL 81CNQ045SL 82CNQ030SL 83CNQ100SL 84CNQ045SL 85CNQ015SL 89CNQ135SL 89CNQ150SL  **PRM2-SL**	
	80CNQ045SM 81CNQ045SM 82CNQ030SM 83CNQ100SM 84CNQ045SM 85CNQ015SM 89CNQ135SM 89CNQ150SM  **PRM2-SM**	60CNQ045SL 61CNQ045SL 62CNQ030SL 63CNQ100SL 69CNQ135SL 69CNQ150SL  **PRM3-SL**
		60CNQ045SM 61CNQ045SM 62CNQ030SM 63CNQ100SM 69CNQ135SM 69CNQ150SM  **PRM3-SM**
160CMQ035 160CMQ040 160CMQ045 161CMQ035 161CMQ040 161CMQ045 162CMQ030 163CMQ080 163CMQ100 169CMQ135 169CMQ150  **TO-249AA**	60CNQ035 60CNQ040 60CNQ045 61CNQ035 61CNQ040 61CNQ045 62CNQ030 63CNQ080 63CNQ100 69CNQ135 69CNQ150  **PRM3**	30CPQ080 30CPQ100 30CPQ135 30CPQ150 40CPQ080 40CPQ100 40CPQ135 40CPQ150  **TO-247**