

T-03-19

RECTIFIERS

Schottky Barrier Rectifiers

Operating/Storage Temperature Range $-65^{\circ}\text{C} - 150^{\circ}\text{C}$

Type	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz	Maximum Forward Peak Surge Current @ 8.3ms Superimposed		Maximum Reverse Current @ PRV	Maximum Forward Voltage @ $25^{\circ}\text{C} T_A$		
	PRV V_{PK}	$I_o @ T_c$ A_{AV}	I_{FM} (Surge) A_{PK}	$I_R @ T_c$ $mAdc$	$I_R @ T_c$ $^{\circ}\text{C}$	I_{FM} A_{PK}	V_{FM} V_{PK}	
20/30/40/50 Ampere Schottky/T0-3P								
SR2020	20	20	95	150	2.0	25	10	0.65
SR2030	30	20	95	150	2.0	25	10	0.65
SR2045	45	20	95	150	2.0	25	10	0.65
SR3030	30	30	100	300	2.0	25	15	0.7
SR3040	40	30	100	300	2.0	25	15	0.7
SR3045	45	30	100	300	2.0	25	15	0.7
SR3050	50	30	100	300	2.0	25	15	0.7
SD241P	45	30	95	400	100	125	20	0.60
SR4020	20	40	100	400	2.0	25	20	0.7
SR4030	30	40	100	400	2.0	25	20	0.7
SR4040	40	40	100	400	2.0	25	20	0.7
SR4045	45	40	100	400	2.0	25	20	0.7
SR4050	50	40	100	400	2.0	25	20	0.7
SR5020	20	50	125	600	2.0	25	25	0.67
SR5030	30	50	125	600	2.0	25	25	0.67
SR5040	40	50	125	600	2.0	25	25	0.67
SR5045	45	50	125	600	2.0	25	25	0.67
SR5050	50	50	125	600	2.0	25	25	0.67



NOTE: 1. Standard Type = Common Cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".
2. PIV Rating of 60V Available By Special Order.

Super Fast Rectifiers

Operating/Storage Temperature Range $-65^{\circ}\text{C} - 150^{\circ}\text{C}$

Type	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz	Maximum Forward Peak Surge Current @ 8.3ms Superimposed		Maximum Reverse Current @ PRV	Maximum Forward Voltage @ $25^{\circ}\text{C} T_A$	Maximum Reverse Recovery Time
	PRV V_{PK}	$I_o @ T_A$ A_{AV}	I_{FM} (Surge) A_{PK}	I_R μAdc	I_R $^{\circ}\text{C}$	I_{FM} A_{PK}	V_{FM} V_{PK}

1.0 Ampere Super Fast/D0-41

SF11	50	1.0	55	30	5.0	1.0	.975	35
SF12	100	1.0	55	30	5.0	1.0	.975	35
SF13	150	1.0	55	30	5.0	1.0	.975	35
SF14	200	1.0	55	30	5.0	1.0	.975	35

2.0 Ampere Super Fast/D0-15

SF21	50	2.0	55	50	5.0	2.0	.975	35
SF22	100	2.0	55	50	5.0	2.0	.975	35
SF23	150	2.0	55	50	5.0	2.0	.975	35
SF24	200	2.0	55	50	5.0	2.0	.975	35



Operating/Storage Temperature Range -65°C to +175°C

Type	Maximum Peak Reverse Voltage	Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz	Maximum Forward Peak Surge Current @ 8.3ms Superimposed	Maximum Reverse Current @ PRV @ 25°C T _A	Maximum Forward Voltage @ 25°C T _A	Maximum Reverse Recovery Time
	PRV	I _o @ T _A	I _{FM} (Surge)	I _R	V _{FM}	T _{rr}
	V _{PK}	A _{AV} °C	A _{PK}	µA _{dc}	A _{PK} V _{PK}	nS

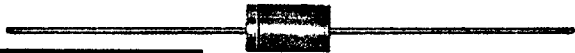
3.0 Ampere Super Fast/DO-201AD

SF31	50	3.0	55	110	10	3.0	.975	35
SF32	100	3.0	55	110	10	3.0	.975	35
SF33	150	3.0	55	110	10	3.0	.975	35
SF34	200	3.0	55	110	10	3.0	.975	35



6.0 Ampere Super Fast/DO-201AD

SF61	50	6.0	55	150	10	6.0	1.0	35
SF62	100	6.0	55	150	10	6.0	1.0	35
SF63	150	6.0	55	150	10	6.0	1.0	35
SF64	200	6.0	55	150	10	6.0	1.0	35



8.0 Ampere Super Fast/TO-220A

SF81	50	8.0	*125	125	10	8.0	.975	35
SF82	100	8.0	*125	125	10	8.0	.975	35
SF83	150	8.0	*125	125	10	8.0	.975	35
SF84	200	8.0	*125	125	10	8.0	.975	35



NOTE: 1. Suffix "R" for Reverse Polarity.
2. "*" T_c (Case Temperature).

16 Ampere Super Fast/TO-220

SF161	50	16	*125	125	10	8.0	.975	35
SF162	100	16	*125	125	10	8.0	.975	35
SF163	150	16	*125	125	10	8.0	.975	35
SF164	200	16	*125	125	10	8.0	.975	35



NOTE: 1. Standard Type = Common Cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".
2. "*" T_c (Case Temperature).

16 Ampere Super Fast/TO-220A

SF2001	50	16	125	250	10	16	0.975	35
SF2002	100	16	125	250	10	16	0.975	35
SF2003	150	16	125	250	10	16	0.975	35
SF2004	200	16	125	250	10	16	0.975	35



NOTE: Suffix "R" for Reverse Polarity.

30 Ampere Super Fast/TO-3P

SF301	50	30	125	300	15	15	0.975	35
SF302	100	30	125	300	15	15	0.975	35
SF303	150	30	125	300	15	15	0.975	35
SF304	200	30	125	300	15	15	0.975	35



NOTE: Standard Type = Common Cathode, Common Anode = Suffix "A", Doubler Connection = Suffix "D".

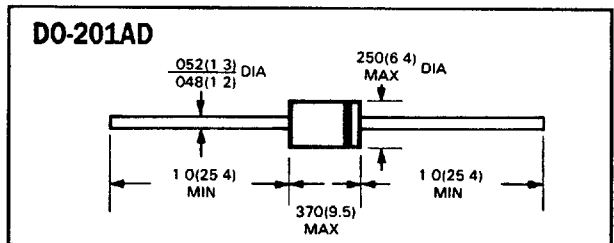
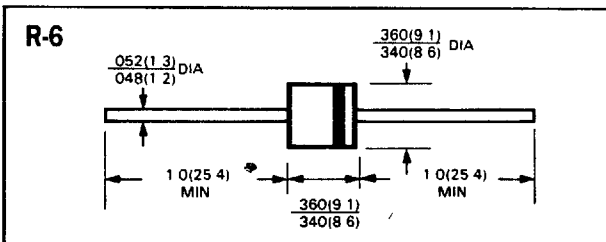
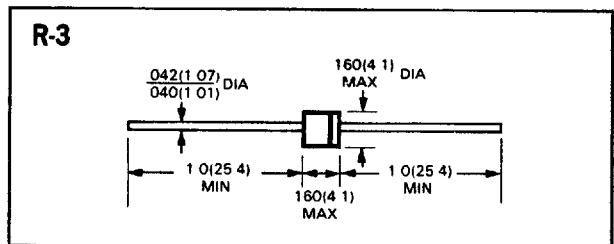
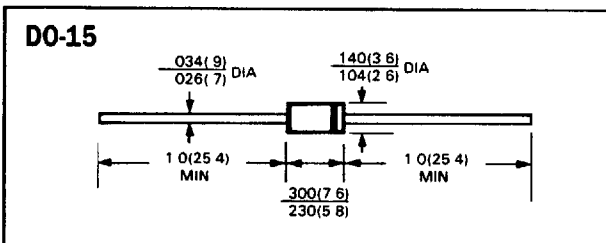
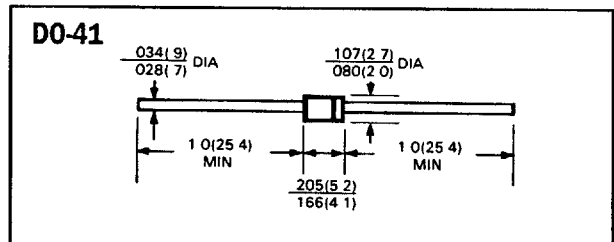
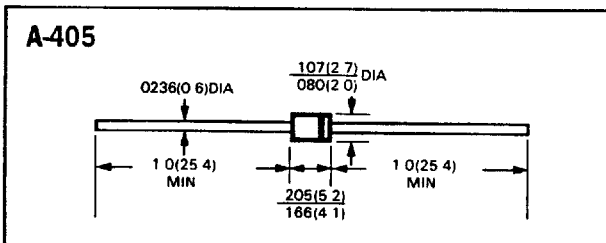
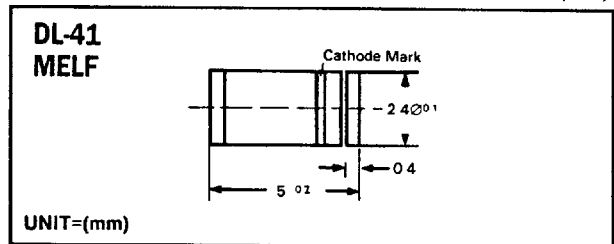
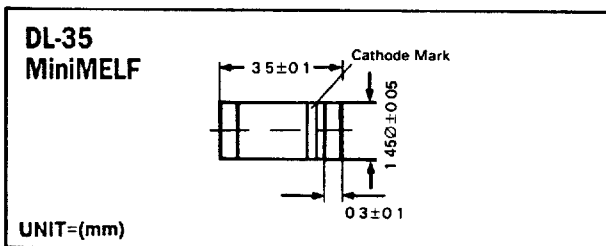
RECTIFIER DIODES AND
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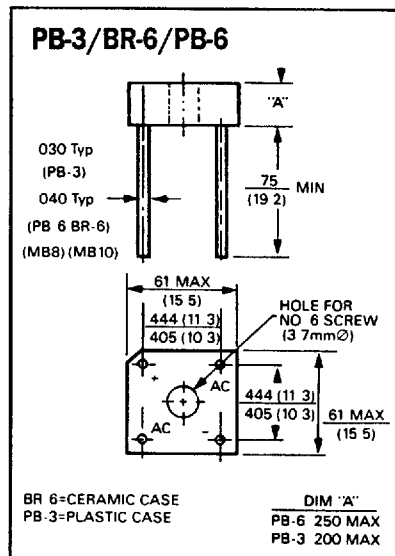
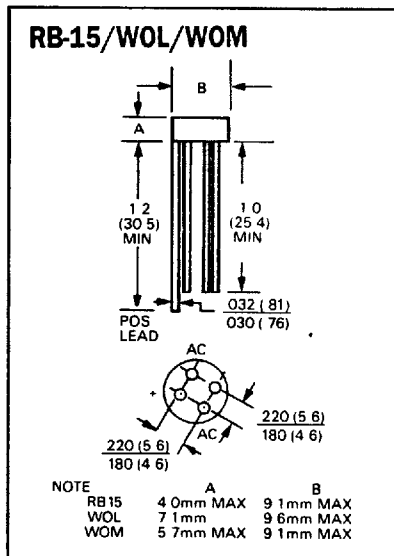
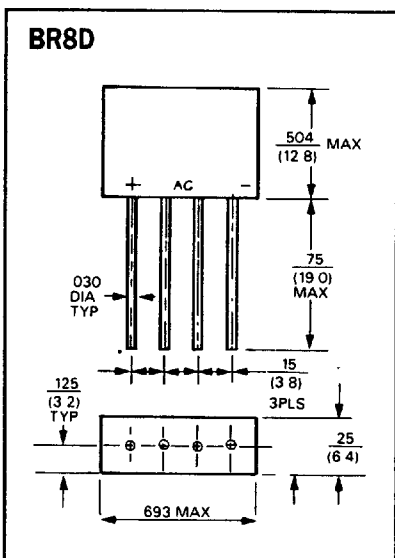
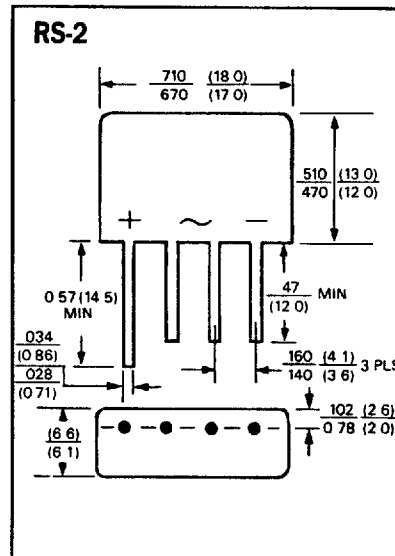
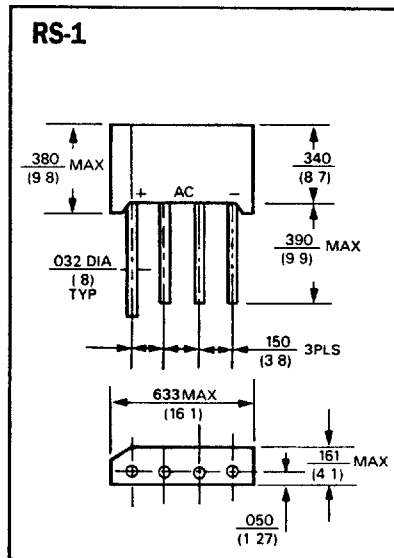
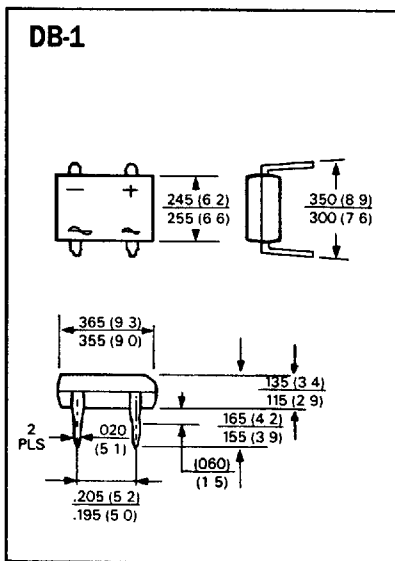
OUTLINE DRAWINGS

Unit = inch (mm)





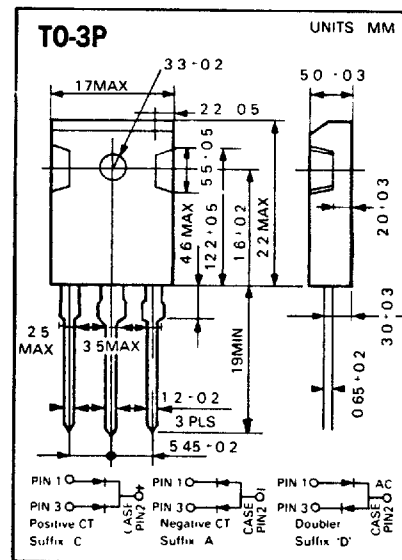
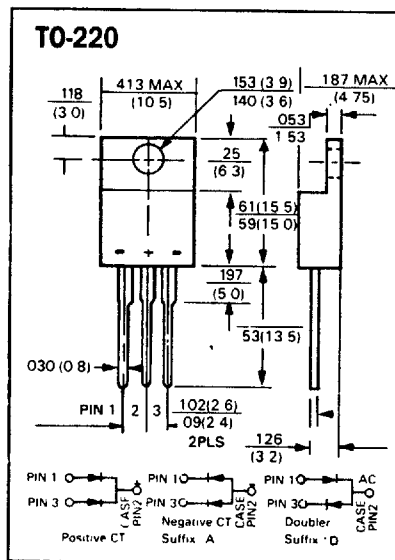
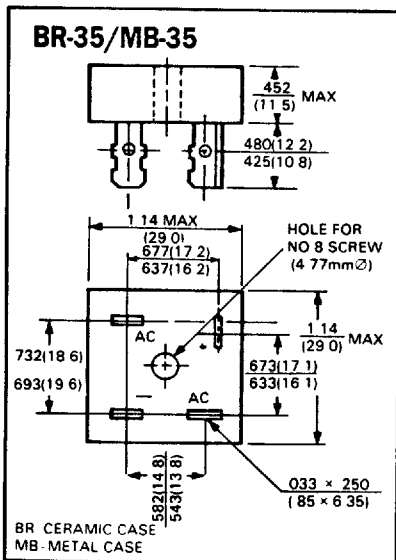
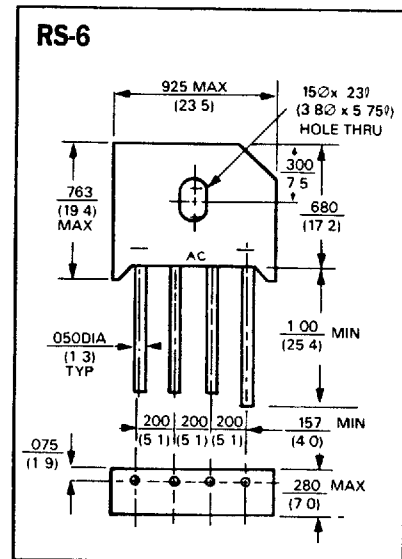
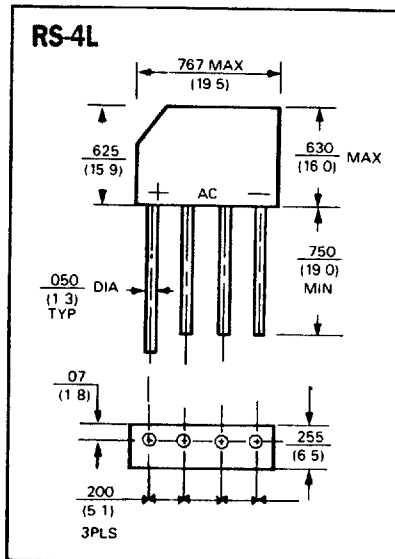
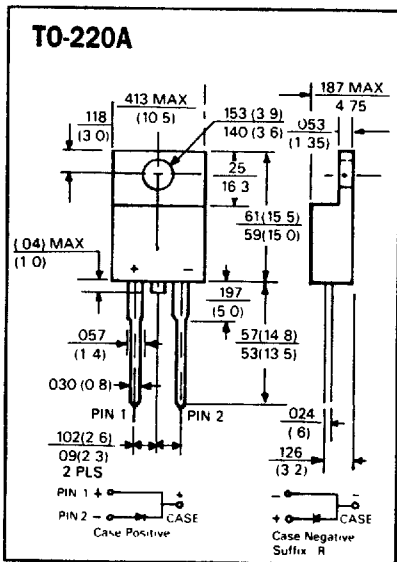
OUTLINE DRAWINGS



RECTIFIER DIODES AND BRIDGE RECTIFIERS

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OUTLINE DRAWINGS



RECTIFIERS

SEMITRON INDUSTRIES LTD

Product Packaging Specifications

PACKAGING OF AXIAL LEAD DIODES, MELF AND MINI-MELF SURFACE MOUNT DEVICES AND TRANSISTORS

REEL PACK

OUTLINE	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA. (m/m)	QTY./REEL (each)
DO-7	5.0	52.4	330	10,000
DO-35	5.0	53	355	10,000
DO-35 (ZENER)	[RADIAL TAPING SEE FIG. 1, 2 & 3]		355	5,000
DL-35 (MINI MELF)	See Pg. 37		250/330	5,000/10,000
DL-41 (MELF)	See Pg. 37		330	5,000
A-405	5.0	52.4	330	5,000
A-500	5.0	52.4	203/254/304	1,000/2,000/3,000
DO-41	5.0	52.4	330	5,000
DO-41 (ZENER)	5.0	53	355	5,000
DO-15	5.0	52.4	330	4,000
R-3	5.0	52.4	330	3,000
DO-201AD	10.0	52.4	330	1,200
R-6	10.0	52.4	330	500
TO-92	[RADIAL TAPING SEE FIG. 4, 5 & 6]		355	2,000
TO-236/SOT-23	[SEE SPECIFICATIONS ON PG.38]		178	3,000

PACKAGING OF AXIAL LEAD DIODES AND LEADED TRANSISTORS

AMMO PACK

OUTLINE	COMPONENT SPACE (mm)	TAPE SPACE (mm)	BOX SIZE (m/m)	QTY./BOX (each)
DO-35 (SW. DIODES)	5.0	53	338/147/77	15,000
DO-35	5.0	53	255/95/85	6,000
DO-35	5.0	26	255/95/51	6,000
A-405	5.0	52.4	255/95/78	3,000
DO-41	5.0	52.4	255/95/78	3,000
DO-41	5.0	26	255/51/95	3,000
DO-41 (ZENER)	5.0	53	255/95/85	3,000
DO-41 (ZENER)	5.0	26	255/95/51	3,000
DO-15	5.0	52.4	255/95/78	2,200
R-3	5.0	52.4	255/95/78	2,000
DO-201AD	10.0	52.4	255/95/78	800
R-6	10.0	52.4	255/95/78	300
TO-92	[RADIAL TAPING, SEE FIG. 4]		340/340/45	4,000

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