

HERMETIC AXIAL LEAD RECTIFIERS

ULTRAFAST RECOVERY DEVICES (t_{rr} 25 nsec - 70 nsec)

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAX. AVG. DC OUTPUT CURRENT		MAXIMUM REVERSE CURRENT @ PIV		MAX. PEAK FORWARD VOLTAGE (PULSED)		PEAK 1 CYCLE SURGE CURRENT	MAXIMUM REVERSE RECOVERY TIME ①	THERM. RESIS. $R_{\theta JL}$ d=.375" ②	PACKAGE STYLE
		Amps		μ Amps		V	A				
		Volts	55°C	100°C	25°C	100°C					
SRS160HE SRS180HE SRS1100HE	600 800 1000	.75	.60	5.0	50	1.7	.75	20	60	38	105
1N6620 1N6621 1N6622 1N6623 1N6624 1N6625	200 400 600 800 900 1000	⑦	⑧	0.5	150	1.60	2.0	20	30	38	105
1N5802 1N5804 1N5806	50 100 150	③	⑨	1.0	50	.875	1.0	35	25	36	105
1N5807 1N5809 1N5811	50 100 150	⑩	③	5.0	150	.875 .925	4.0 6.0	125	④	22	304
1N6626 1N6627 1N6628 1N6629 1N6630 1N6631	200 400 600 800 900 1000	⑤	③	2.0	500	1.35	2.0	75	30	22	305

FAST RECOVERY DEVICES (t_{rr} 500 nsec)

1N4942 1N4944 1N4946 1N4947 1N4948	200 400 600 800 1000	1.0	.75	1.0	50	1.3	1.0	25	150 150 250 250 500	38	103
1N5615 1N5617 1N5619 1N5621 1N5623	200 400 600 800 1000	1.0	.75	0.5	25	1.6	3.0	25	150 150 250 300 500	38	102
1N5186 1N5187 1N5188 1N5190	100 200 400 600	2.5	1.6	2.0	100	1.5	9.0	80	150 200 250 400	20	303
1N5415 1N5416 1N5417 1N5418 1N5419 1N5420	50 100 200 400 500 600	3.0	2.0	1.0	20	1.5	9.0	80	150 150 150 150 250 400	20	303

(Hermetic Axial Lead Rectifiers, Continued on the Next Page)

HERMETIC AXIAL LEAD RECTIFIERS (Continued)

GENERAL PURPOSE DEVICES (t_{rr} 5000 nsec)

TYPE NUMBER	PEAK INVERSE VOLTAGE	MAX. AVG. DC OUTPUT CURRENT		MAXIMUM REVERSE CURRENT @ PIV		MAX. PEAK FORWARD VOLTAGE (PULSED)		PEAK 1 CYCLE SURGE CURRENT	MAXIMUM REVERSE RECOVERY TIME ①	THERM. RESIS. $R_{\theta JL}$ $d=.375"$ ②	PACKAGE STYLE
		Amps		μ Amps		V	A				
		Volts	55°C	100°C	25°C	100°C					
1N5614 1N5616 1N5618 1N5620 1N5622	200 400 600 800 1000	1.0	.75	0.5	25	1.3	3.0	50	2000	38	102
1N3611 1N3612 1N3613 1N3614 1N3957	200 400 600 800 1000	1.5	1.0	1.0	25	1.1	1.0	30	5000	38	101
1N4245 1N4246 1N4247 1N4248 1N4249	200 400 600 800 1000	1.5	1.0	1.0	25	1.3	3.0	30	5000	38	103
1N5550 1N5551 1N5552 1N5553 1N5554	200 400 600 800 1000	3.0	2.0	1.0	75	1.2 1.2 1.2 1.3 1.3	9.0	150	2000	20	301

Notes:

-All ratings are at $T_A = 25^\circ\text{C}$ unless otherwise specified.

-Maximum operating and storage temperature range -65°C to $+175^\circ\text{C}$.

① Reverse recovery time conditions: $I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$.

② d = distance on lead from rectifier body at which temperature is measured.

③ Output current rating at $T_L = 75^\circ\text{C}$, $L = .375"$.

- Lead material - copper
- Finish - hot solder dipped

④ Reverse recovery time conditions: $I_f = I_r = 1.0\text{A}$, $I_{rr} = 0.1\text{A}$, $di/dt = 100\text{A}/\mu\text{sec}$ minimum.

⑤ Output current rating at $T_J = 25^\circ\text{C}$.

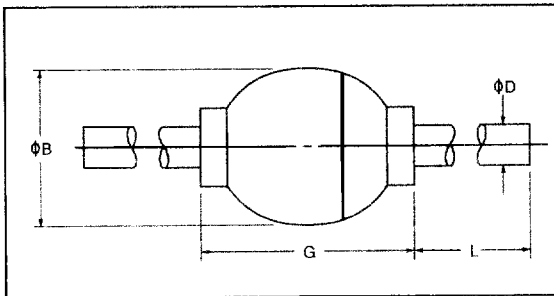
⑥ Rating at $T_J = 150^\circ\text{C}$.

⑦ Output current rating at $T_L = 55^\circ\text{C}$, $L = 0.375"$.

⑧ $T_A = 25^\circ\text{C}$, no heatsink.

⑨ $T_A = 55^\circ\text{C}$.

AXIAL LEAD RECTIFIER OUTLINES



Note: Cathode side of device is indicated by a dark band marked on body.

PACKAGE STYLE	DIMENSIONS - INCHES - MILLIMETERS			
	ϕB	ϕD	G	L
101	.060/.110 1.52/2.79	.025/.034 .64/.86	.140/.205 3.56/5.21	.60/1.50 15.2/38.1
102	.065/.110 1.65/2.79	.026/.033 .66/.84	.130/.225 3.30/5.72	1.00/1.30 25.4/33.0
103	.065/.150 1.65/3.81	.027/.033 .69/.84	.140/.250 3.56/6.35	1.0/1.50 25.4/38.1
105	.065/.120 1.65/3.05	.026/.033 .66/.84	.130/.250 3.30/6.35	1.00/1.30 25.4/33.0
106	.065/.085 1.65/3.56	.027/.032 .69/.81	.125/.250 3.18/6.35	.700/1.30 17.78/33.02
107	.115/.180 2.92/4.57	.026/.033 .66/.84	.130/.300 3.30/7.62	.90/1.30 22.9/33.0
301	.115/.180 2.92/4.57	.037/.042 .94/1.07	.130/.300 3.30/7.62	.90/1.30 22.9/33.0
303	.110/.180 2.79/4.57	.037/.042 .94/1.07	.130/.260 3.30/6.60	.90/1.30 22.9/33.0
304	.115/.165 2.92/4.19	.037/.042 .94/1.07	.130/.300 3.30/7.62	.90/1.30 22.9/33.0
306	.115/.137 2.92/3.50	.037/.042 .94/1.07	.130/.300 3.30/7.62	.90/1.30 22.9/33.0
307	.115/.180 2.92/4.57	.037/.042 .94/1.07	.130/.300 3.30/7.62	.90/1.30 22.9/33.0
601	.115/.180 2.92/4.57	.057/.062 1.45/1.58	.130/.300 3.30/7.62	1.00/1.50 24.5/38.1