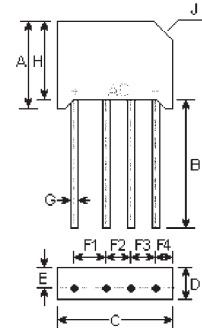


Features

- Plastic material used carries Underwriters Laboratory recognition 94V-0
- High surge current capability
- Ideal for printed circuit board
- Typical I_R less than $1 \mu A$
- Built-in printed board stand offs
- High temperature soldering guaranteed: $250^\circ C$ for 5 seconds

RS-5



Mechanical Data

- **Case:** Reliable low cost construction utilizing molded plastic technique
- **Terminals:** Leads solderable per MIL-STD-202, method 208
- **Mounting Position:** Any
- **Weight:** 0.92 ounce, 25.3 grams

DIM	DIMENSIONS				Note
	Min	Max	Min	Max	
A	0.825	0.850	2.10	2.17	
B	1.0	1.05	25.4	25.7	
C	1.550	1.560	39.4	40.1	
D	0.180	0.195	4.6	5.0	
E	0.240	0.245	6.2	6.2	
F1	0.355	0.400	9.1	10.2	
F2	0.285	0.300	7.2	7.6	
F3	0.285	0.300	7.2	7.6	
F4	0.240	0.245	6.2	6.2	
G	0.525	0.540	13.3	13.7	1
H	0.755	0.820	20.2	21.0	
J	0.158 (4.8145)				

Maximum Ratings and Electrical Characteristics

Ratings at $25^\circ C$ ambient temperature unless otherwise specified. resistive or inductive load at 50Hz or 60Hz.

	Symbols	RS501	RS502	RS503	RS504	RS505	RS506	RS507	Units
Maximum repetitive peak reverse voltage	V_{RRM}	65	125	200	400	600	800	1000	Volts
Maximum RMS input voltage R + C-Load	V_{RMS}	40	80	125	250	380	500	630	Volts
Maximum DC blocking voltage ¹⁾	V_{DC}	65	125	200	400	600	800	1000	Volts
Maximum non-repetitive peak reverse voltage ¹⁾	V_{RSM}	100	190	300	600	900	1200	1500	Volts
Maximum average forward output current I_{FAVM} natural cooling, $T_A=45^\circ C$ C-Load R+L-Load on chassis=31in ² , 200cm ² ; $T_A=45^\circ C$ C-Load R+L-Load	$I_{(AV)}$				3.3 4.0				Amps
Maximum repetitive peak forward surge current	I_{FRM}				30.0				APK
Peak surge forward current single sine-wave on rated load $T_J=25^\circ C$ $T_J=150^\circ C$	I_{FSM}				250 200				APK
I ² t Rating for fusing ($t>8.3mS$) $T_J=25^\circ C$ $T_J=150^\circ C$	I ² t				312 200				A ² S A ² S
Minimum series resistance at V_{RMS}	R	0.15	0.3	0.6	1.2	1.8			OHM
Maximum reservoir capacitor	C	10000	5000	5000	2500	1000			μF
Maximum reverse current at rated repetitive peak voltage $T_J=25^\circ C$ $T_J=150^\circ C$	I_R				10 6.0				μA mA
Maximum instantaneous forward voltage drop per element at 5.0A	V_F				1.1				VPK
Operating and storage temperature range	T_J, T_{STG}				-55 to +150				$^\circ C$

Note:

(1) Valid for each bridge element

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

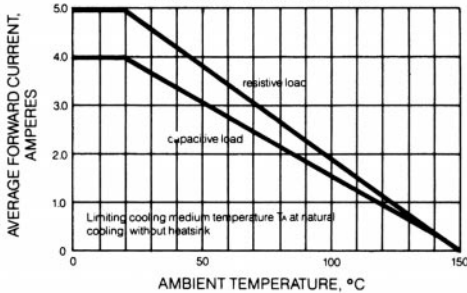


FIG. 2 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

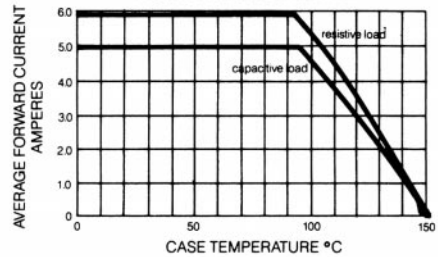


FIG. 3 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

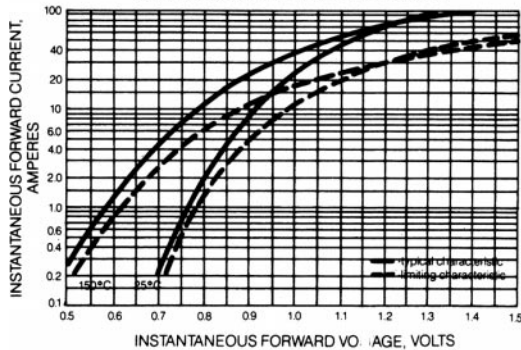


FIG. 4 — MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

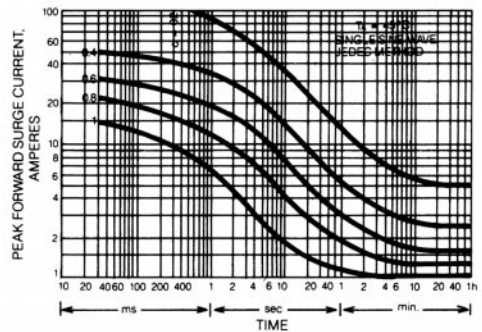


FIG. 5 — MAXIMUM TOTAL BRIDGE POWER DISSIPATION

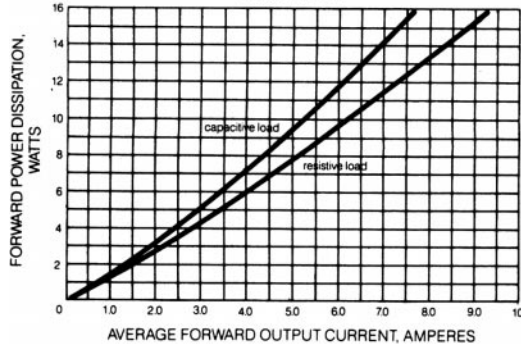
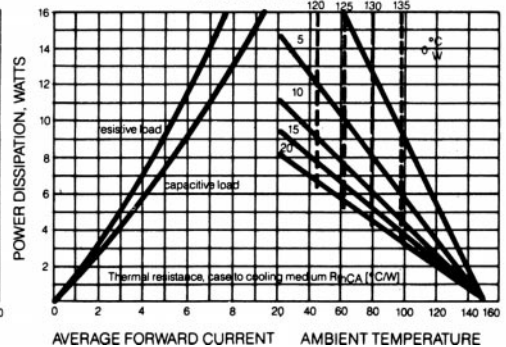


FIG. 6 — MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE



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