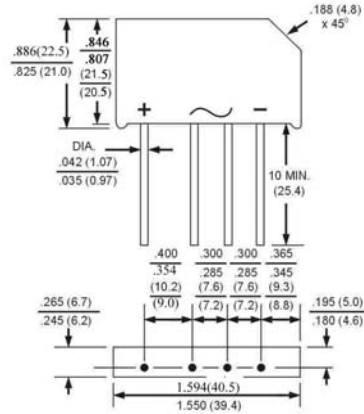


RoHS Compliant Product  
A suffix of "-C" specifies halogen-free.

**FEATURES**

- Plastic material used carries Underwriter Laboratory recognition 94V-0
- High surge current capability
- Ideal for printed circuit board
- Typical IR less than 1mA
- Built-in printed board stand offs
- High temperature soldering guaranteed: 250°C for 5 seconds



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Rating at 25°C ambient temperature unless otherwise specified.  
resistive or inductive load at 50Hz or 60Hz.

CHARACTERISTICS	RS501	RS502	RS503	RS504	RS505	RS506	RS507	UNIT
	B40	B80	B125	B250	B380			
Maximum Recurrent Peak Reverse Voltage	65	125	200	400	600	800	1000	V <sub>RM</sub>
Maximum RMS Voltage	40	80	125	250	380	500	630	V <sub>RMS</sub>
Maximum DC Blocking Voltage	65	125	200	400	600	800	1000	V <sub>DC</sub>
Maximum Repetitive Peak Reverse Voltage (Note 1)	100	190	300	600	900	1200	1500	V <sub>RRM</sub>
Maximum Average Forward Output Current I <sub>FAVM</sub> nature cooling, T <sub>A</sub> =45°C C - Load R + L - Load on chassis = 31 in <sup>2</sup> , 200 cm <sup>2</sup> , T <sub>A</sub> =45°C C - Load R + L - Load			3.3 4.0	5.0 6.0				A <sub>(AV)</sub>
Maximum Repetitive Peak Forward Surge Current I <sub>FSM</sub>				30				APK
Peak Forward Surge Current single sine-wave on rated load (JEDEC Method)	@T <sub>J</sub> = 25 °C			250				APK
	@T <sub>J</sub> =150°C			200				
I <sup>2</sup> t Rating for fusing (t<8.3ms)	@T <sub>J</sub> = 25 °C			312				A <sup>2</sup> S
	@T <sub>J</sub> =150°C			200				A <sup>2</sup> S
Minimum Series Resistance at V <sub>RMS</sub>	0.15	0.3	0.6	1.2	1.8			OHM
Maximum Reservoir Capacitor	10000	5000	5000	2500	1000			µF
Maximum Reverse Current at rated Repetitive Peak Voltage	@T <sub>J</sub> = 25 °C			10				µA
	@T <sub>J</sub> =150°C			6.0				mA
Maximum Instantaneous Forward Drop per element at 5.0A				1.0				VPK
Operating and Storage Temperature Range T <sub>J</sub> , T <sub>STG</sub>				-40 to +125				°C

NOTES: 1. Valid for each bridge element.

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

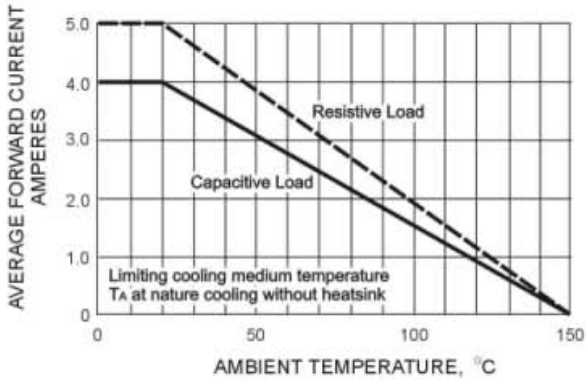


FIG. 2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

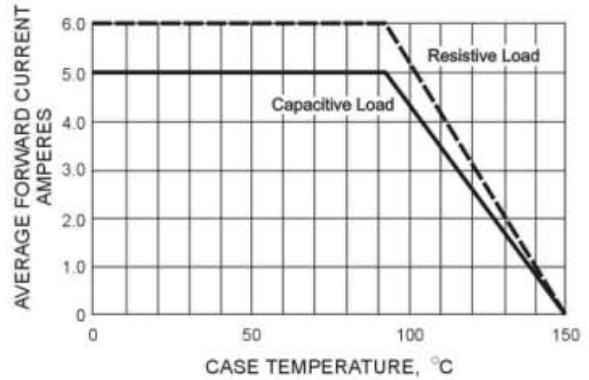


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

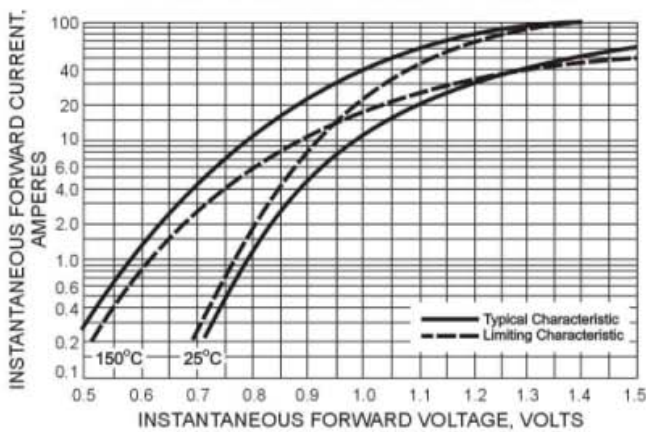


FIG. 4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

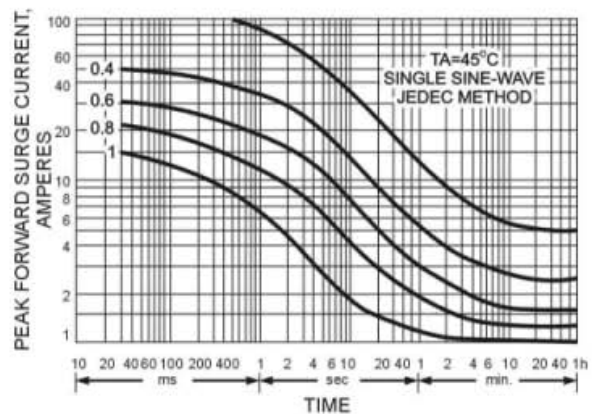


FIG. 5 - MAXIMUM TOTAL BRIDGE POWER DISSIPATION

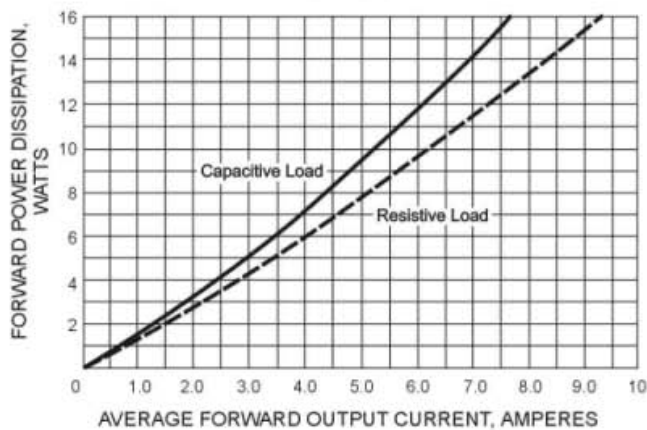


FIG. 6 - MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE

