

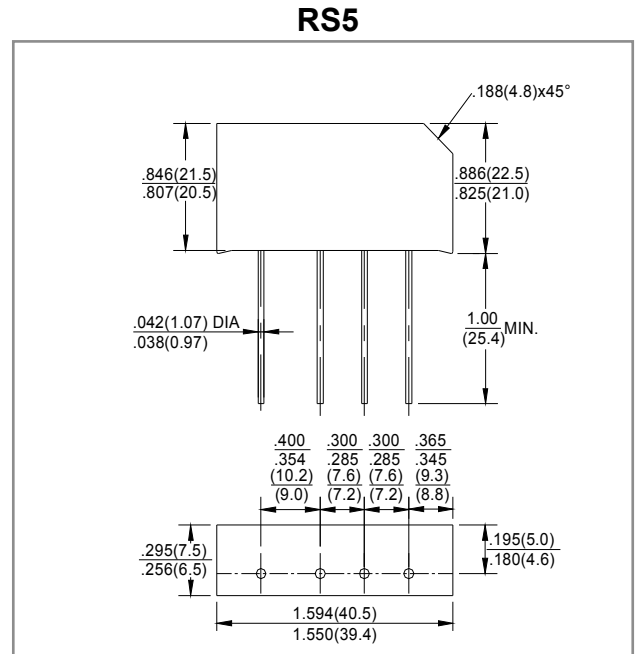


Volatge Rangs - 50 to 1000 Volts

Forward Current - 5.0 Amperes

Features

- Plastic material used carries UL recognition 94V-0
- High surge current capability
- Ldeal 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	SYMBOL	RS501G	RS502G	RS503G	RS504G	RS505G	RS506G	RS507G	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	400	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Repetitive Peak Reverse Voltage (Note1)	V <sub>RRM</sub>	100	190	300	600	900	1200	1500	V
Maximum Average Forward Output Current I <sub>FAVM</sub> natuer cooling, T <sub>A</sub> =45°C	I <sub>(A)</sub>								A
C-Load		3.3							
R+L-Load		4.0							
on chassis=31in <sup>2</sup> , 200cm <sup>2</sup> , T <sub>A</sub> =45°C									
C-Load		5.0							
R+L-Load		6.0							
Maximum Repetitive Peak Forward Surge Current I <sub>FSM</sub>	APK	30							A
Peak Forward Surge Current Single @T <sub>J</sub> =25°C	I <sub>FSM</sub>	250							APK
Sine-Wave on Reated Load (JEDEC Method) @T <sub>J</sub> =150°C		200							
I <sup>2</sup> t Rating for Fusing @T <sub>J</sub> =25°C	I <sup>2</sup> t	312							A <sup>2</sup> S
(t<8.3ms) @T <sub>J</sub> =150°C		200							
Maximum 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		uF	
Maximum Reverse Current at @T <sub>J</sub> =25°C	I <sub>R</sub>	10.0							µA
Rated Repetitive Peak Voltage @T <sub>J</sub> =150°C		6.0							
Maximum instantaneous Forward Drop per Element at 5.0A	V <sub>F</sub>	1.0							V
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +125							°C

NOTES:1.Valid for each bridge element.

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

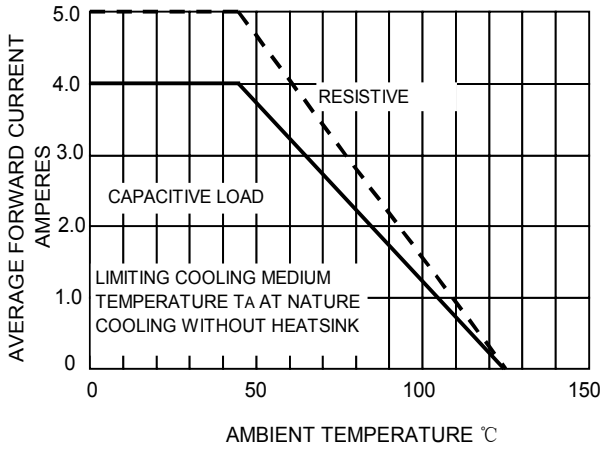


FIG.2- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

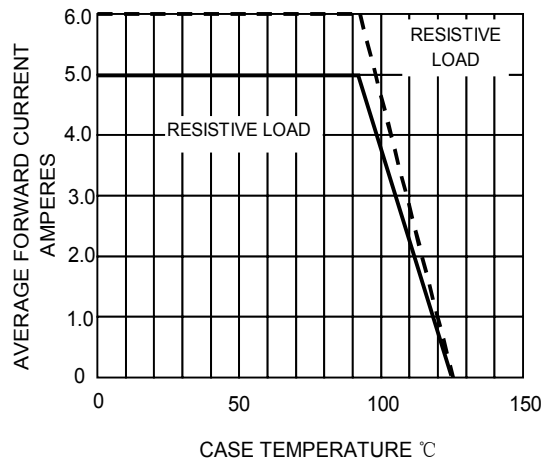


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

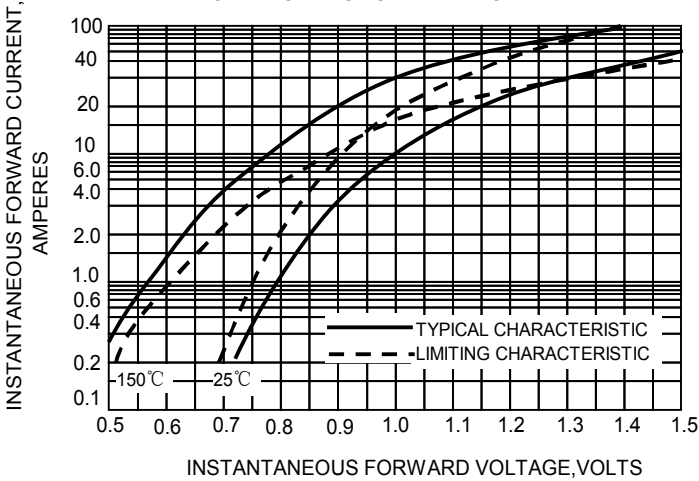


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

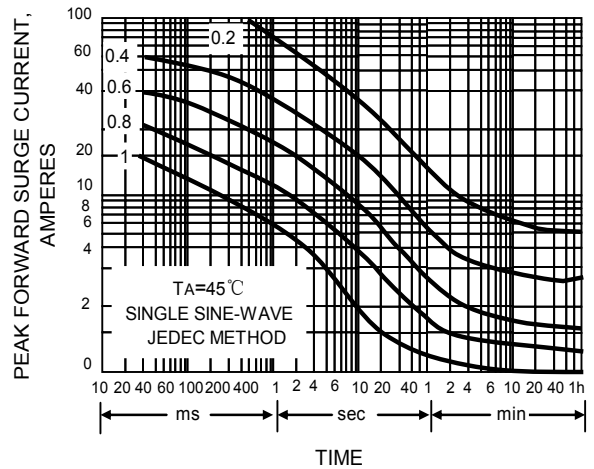


FIG.5-MAXIMUM TOTAL BRIDGE POWER DISSIPATION

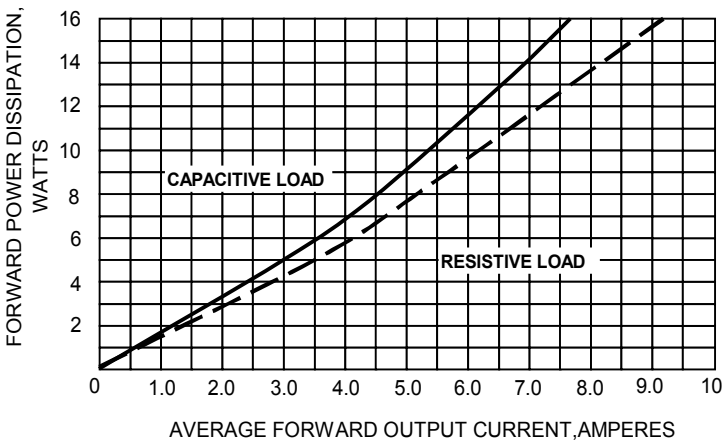


FIG.6-MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE

