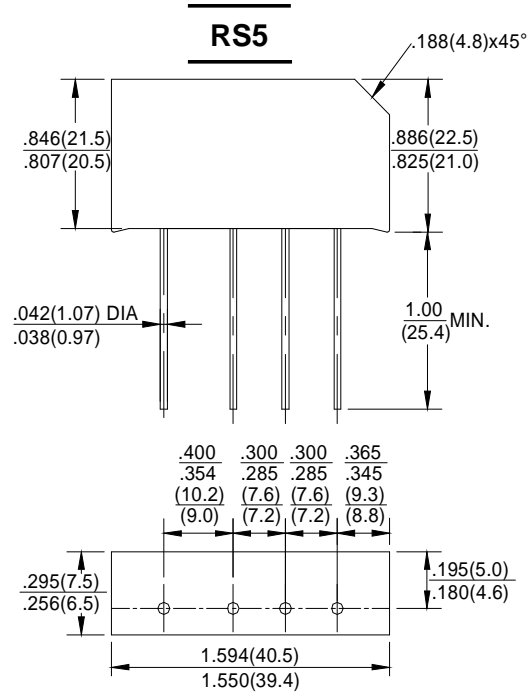


SILICON BRIDGE RECTIFIERS	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 5.0 Amperes
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FEATURES

- Plastic material used carries UL 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 (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

CHARACTERISTICS	SYMBOL	RS501	RS502	RS503	RS504	RS505	RS506	RS507	UNIT
Maximum Recurrent Peak Reverse Voltage	VRM	60	125	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	40	80	125	250	380	500	630	V
Maximum DC Blocking Voltage	VDC	65	125	200	400	600	800	1000	V
Maximum Repetitive Peak Reverse Voltage (Note1)	VRRM	100	190	300	600	900	1200	1500	V
Maximum Average Forward Output Current IFAVM naturer cooling, TA=45°C C-Load R+L-Load on chassis=31in ² , 200cm ² , TA=45°C C-Load R+L-Load	I(A)				3.3 4.0 5.0 6.0				A
Maximum Repetitive Peak Forward Surge Current IFSM	APK				30				A
Peak Forward Surge Current Single @TJ=25°C Sine-Wave on Reated Load (JEDEC Method) @TJ=150°C	I _{FSM}				250 200				APK
I ² t Rating for Fusing @TJ=25°C (t<8.3ms) @TJ=150°C	I ² t				312 200				A ² S
Maximum Series Resistance at VRMS		0.15	0.3	0.6	1.2		1.8		OHM
Maximum Reservoir Capacitor		10000	5000	5000	2500		1000		uF
Maximum Reverse Current at @TJ=25°C Rated Repetitive Peak Voltage @TJ=150°C	IR				10.0 6.0				uA mA
Maximum instantaneous Forward Drop per Element at 5.0A	VF				1.0				V
Operating and Storage Temperature Range	TJ, TSTG				-55 to +125				°C

NOTES:1.Valid for each bridge element.

RATING AND CHARACTERISTIC CURVES RS5 SERIES



FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

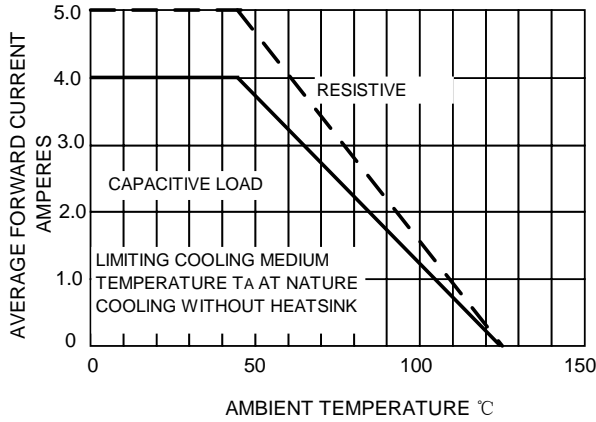


FIG.1- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

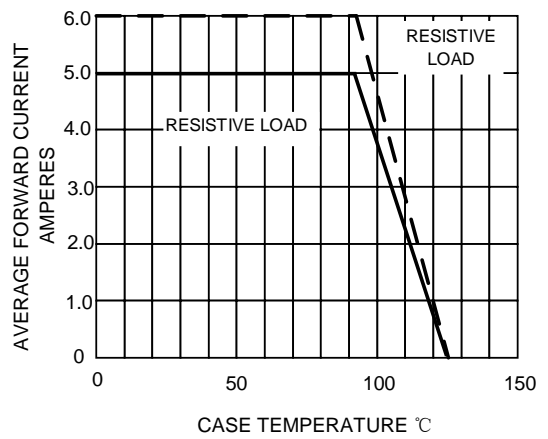


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

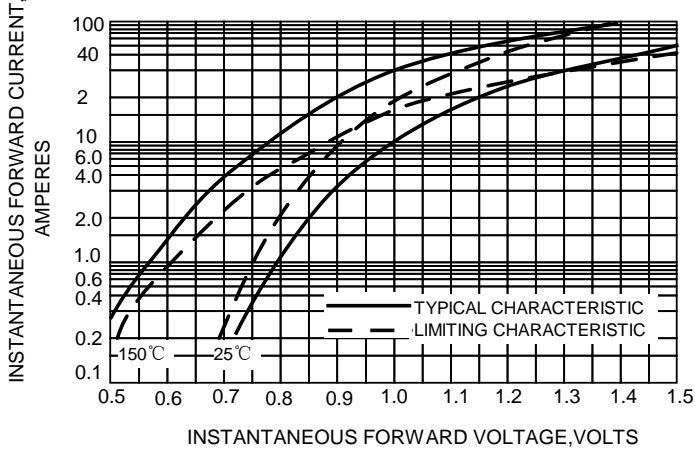


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

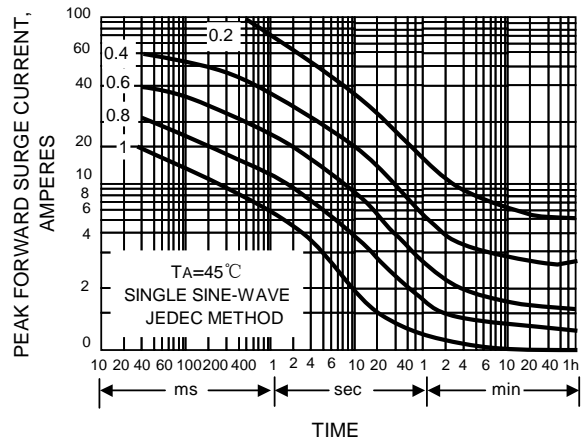


FIG.5-MAXIMUM TOTAL BRIDGE POWER DISSIPATION

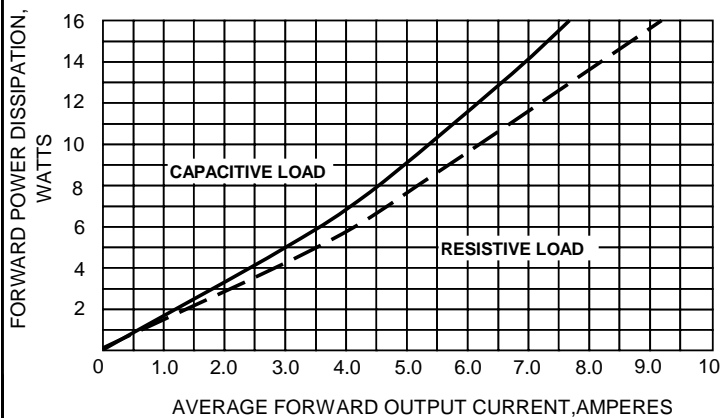


FIG.6-MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE

