

SILICON BRIDGE RECTIFIERS	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 5.0 Amperes
<p>FEATURES</p> <ul style="list-style-type: none"> ● Plastic material used carries UL recognition 94V-0 ● High surge current capability ● Ideal for printed circuit board ● Built-in printed board stand offs 	<p style="text-align: center;">Dimensions in inches and (millimeters)</p>

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	V _{RM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	400	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Repetitive Peak Reverse Voltage (Note1)	V _{RRM}	100	190	300	600	900	1200	1500	V	
Maximum Average Forward Output Current I _{F(AV)} natural cooling, T _A =45°C	I(A)									
C-Load									3.3	
R+L-Load									4.0	
on chassis=31in ² , 200cm ² , T _A =45°C									5.0	
C-Load	I ² _t								312	
R+L-Load									200	
Maximum Repetitive Peak Forward Surge Current I _{FSM}	APK								30	
Peak Forward Surge Current Single @T _J =25°C	I _{FSM}								250	
Sine-Wave on Rated Load (JEDEC Method) @T _J =150°C									200	
Maximum Series Resistance at V _{RMS}		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 _J =25°C	I _R								10.0	
Rated Repetitive Peak Voltage @T _J =150°C									6.0	
Maximum instantaneous Forward Drop per Element at 5.0A	V _F								1.0	
Operating Temperature Range	T _J								-55 to+150	
Storage Temperature Range	T _{STG}								-55 to+150	

NOTES:1. Valid for each bridge element.

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

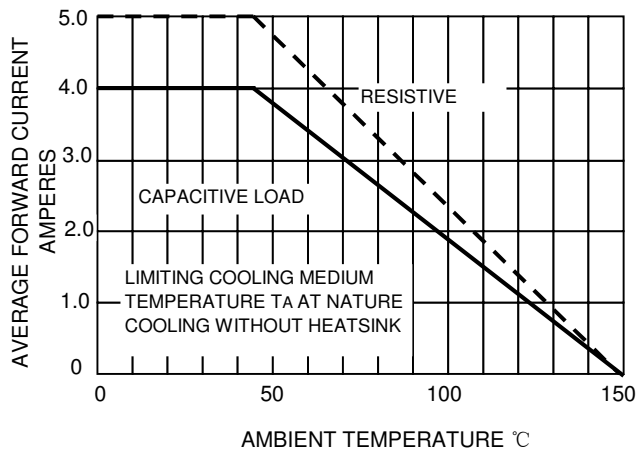


FIG.2- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

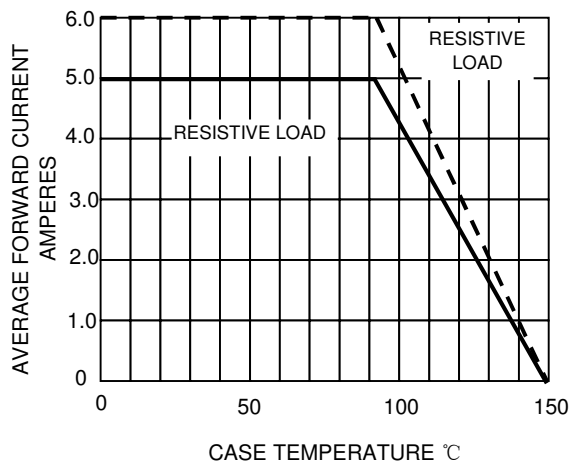


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

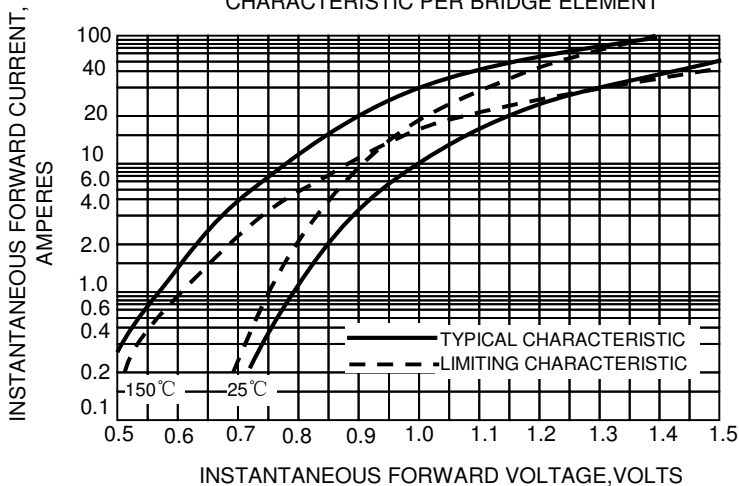


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

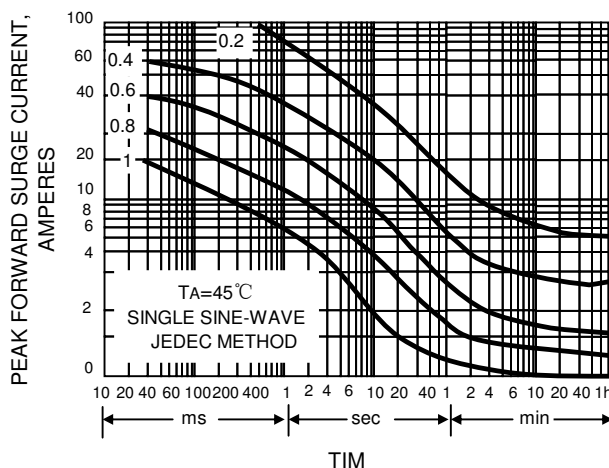


FIG.5-MAXIMUM TOTAL BRIDGE POWER DISSIPATION

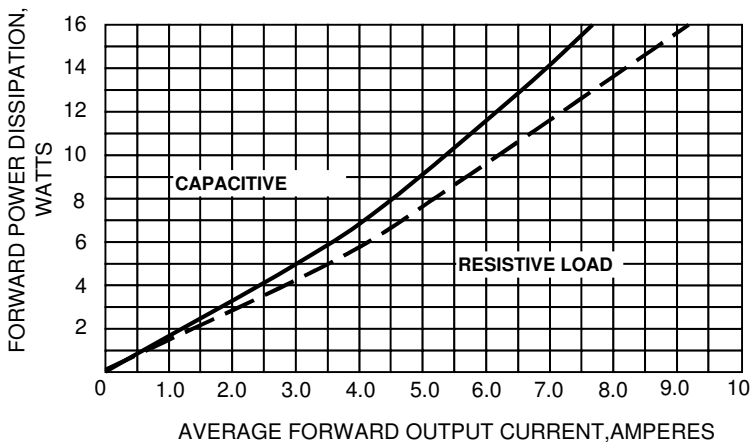


FIG.6-MEAN AVERAGE FORWARD CURRENT

