

SILICON BRIDGE RECTIFIERS	REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 5.0 Amperes
FEATURES <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 _R RM	100	190	300	600	900	1200	1500	V
Maximum Average Forward Output Current I _{FAVM} natural cooling, T _A =45°C					3.3				
C-Load	I(A)				4.0				A
R+L-Load					5.0				
on chassis=31in ² , 200cm ² , T _A =45°C					6.0				
C-Load					30				A
R+L-Load					250				A
Maximum Repetitive Peak Forward Surge Current I _{FSM}	APK				200				A
Peak Forward Surge Current Single @T _J =25°C	I _{FSM}				312				A ² S
Sine-Wave on Reated Load (JEDEC Method) @T _J =150°C					200				
I ² t Rating for Fusing @T _J =25°C (t<8.3ms)	I ² t				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				µA
Rated Repetitive Peak Voltage @T _J =150°C					6.0				mA
Maximum instantaneous Forward Drop per Element at 5.0A	V _F				1.0				V
Operating Temperature Range	T _J				-55 to+125				°C
Storage Temperature Range	T _{STG}				-55 to+150				°C

NOTES:1.Valid for each bridge element.



FIG.1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

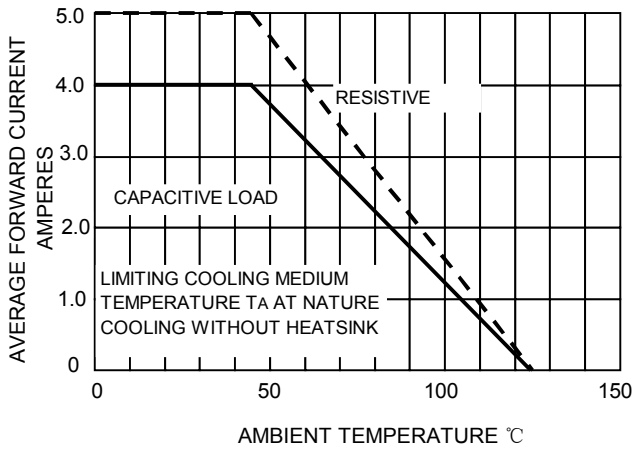


FIG.2- DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

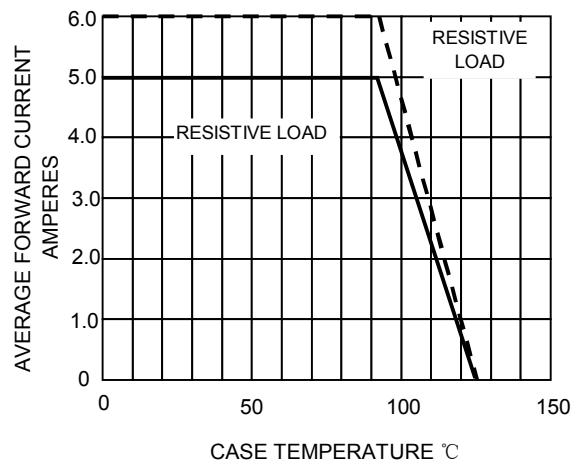


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

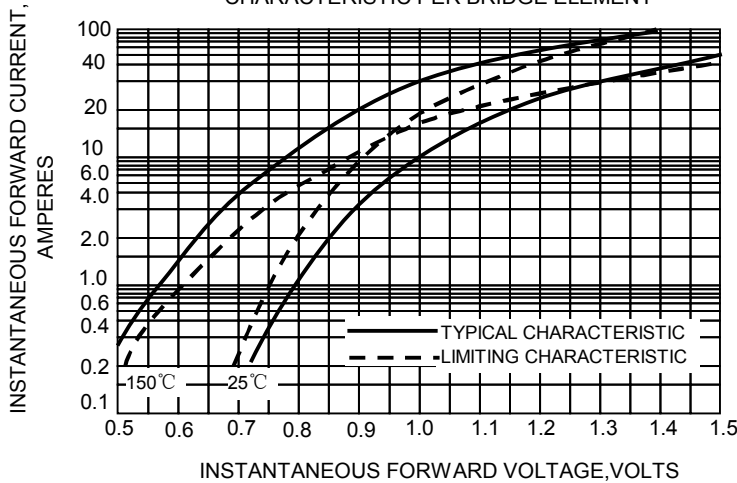


FIG.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

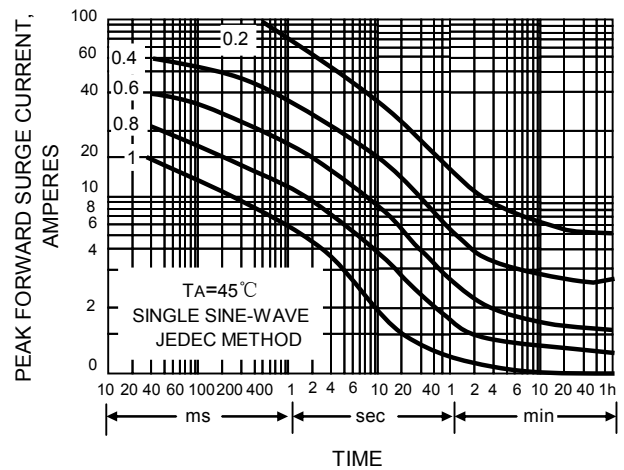


FIG.5-MAXIMUM TOTAL BRIDGE POWER DISSIPATION

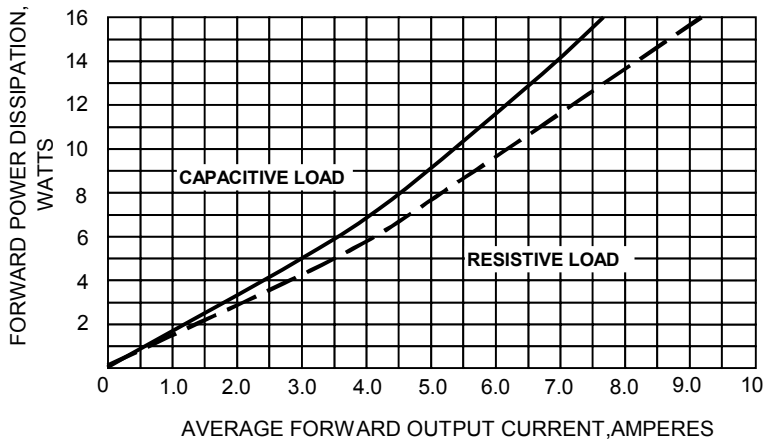


FIG.6-MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE

