Surface Mount Glass Passivated Bridge Rectifiers

multicomp PRO

RoHS Compliant

Features

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop,high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability classification 94V-0
- Reverse Voltage - 50 to 1000 Volts
- Forward Current - 1 Amperes

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Characteristics	Symbol	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V DC	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current @ T_A = 40°C	$I_{(AV)}$	1							A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I_{FSM}	50							
Maximum Forward Voltage at 1A DC	V_F	1.1							V
Maximum DC Reverse Current @T_J = 25°C at Rated DC Blocking Voltage @T_J = 125°C	I_R	10 500							µA
I^2t Rating for Fusing (t<8.3ms)	I^2t	10.4							A^2s
Typical Junction Capacitance Per Element (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	40							°C/W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}								

Note:
1. Measured at 1MHz and applied reverse voltage of 4V DC.
2. Thermal resistance from junction to ambient mounted on P.C.B. with 0.5×0.5”(13*13mm) copper pads.

Rating and Characteristic Curves

FIG.1-FORWARD CURR ENT DERATING CUR VE

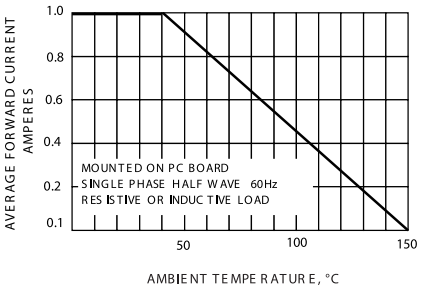


FIG.2-MXIMUM NON-REPE TITIVE
SURGE CURR ENT

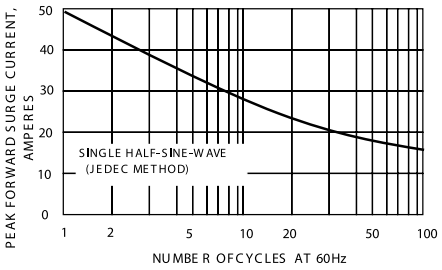


FIG.3-TYPICAL JUNC TION CAPA CITANCE

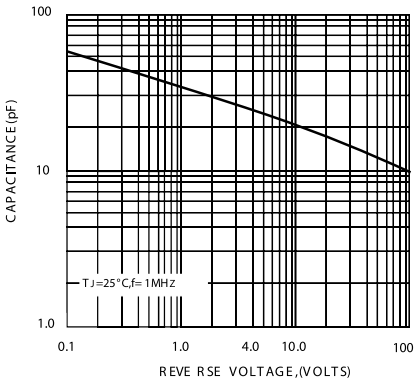


FIG.4-TYPICAL FORWARD CHARACTERISTICS

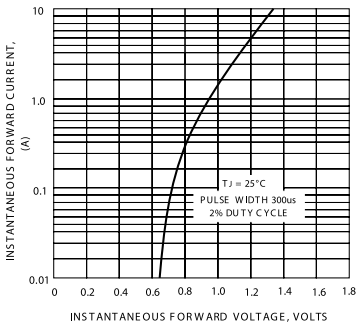
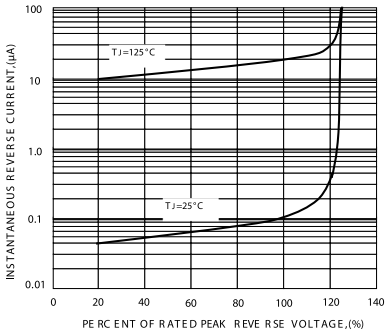


FIG.5-TYPICAL REVE RSE CHARACTERISTICS



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