

DBS101G - DBS107G

Single Phase 1.0 AMPS. Glass Passivated Bridge Rectifiers



Features

- ♦ Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- ♦ Small size, simple installation
- Green compound with suffix "G" on packing code & prefix "G" on datecode.
- ♦ DBS107G ESD Capability > 6KV.

Mechanical Data

- ♦ High temperature soldering guaranteed: 260°C/ 10 seconds.
- \diamondsuit 5 lbs., (2.3 kg) tension
- $\ \, \diamondsuit \,\, \text{Case} : \text{Molded plastic body}$
- Terminal: Pure tin plated, Lead free. Leads solderable per MIL-STD-202 Method 208
- ♦ Mounting position : as Marking

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

.205(5,2) .195(5,0) .040(1,20)	
L _~ ~~∏	.404(10.3) .386(9.80) .255(6.5)
.335(8.51) .320(8.13). 45° .013(0.33) .0088(0.22	245(6.2)

DBS

Dimensions in inches and (millimeters)

Marking Diagram DBS10XG = Specific Device Code G = Green Compound Y = Year WW = Work Week

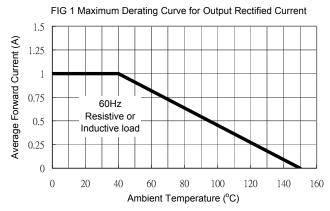
Type Number	Symbol	DBS 101G	DBS 102G	DBS 103G	DBS 104G	DBS 105G	DBS 106G	DBS 107G	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T _A = 40°C	I _(AV)	1							А
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage @ 1.0A	V_{F}	1.1							V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I _R	10 500							uA
Typical Thermal Resistance (Note)	$egin{array}{l} {\sf R} heta_{\sf JA} \ {\sf R} heta_{\sf JC} \ {\sf R} heta_{\sf JL} \end{array}$	40 15 15						°C/W	
Operating Temperature Range	T_J	-55 to +150							оС
Storage Temperature Range	T _{STG}	-55 to +150							оС

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead and from Junction to Case, Mounted on P.C.B. with 0.2" x 0.2"" (5mm x 5mm) Copper Pads.

1 of 2 Version: D09



Rating and Sharacteristic Curves (DBS101G Thru DBS107G)



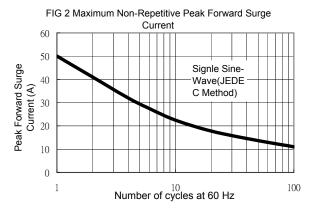
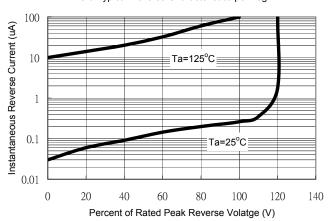
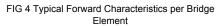


FIG 3 Typical Reverse Characteristics per Leg





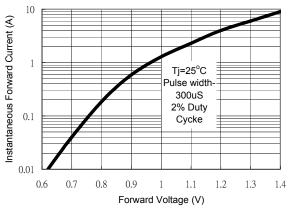
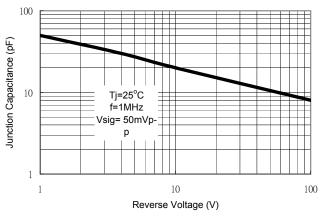


FIG 5 Typical Junction Capacitance



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