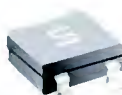


DBS151G - DBS159G

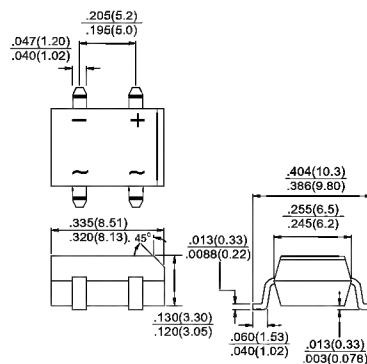
Single Phase 1.5 AMPS. Glass Passivated
Bridge Rectifiers

DBS



Features

- ✧ UL Recognized File # E-96005
- ✧ Glass passivated junction
- ✧ Ideal for printed circuit board
- ✧ Reliable low cost construction utilizing molded plastic technique
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed:
260 °C / 10 seconds at 5 lbs., (2.3 kg)
tension
- ✧ Small size, simple installation
- ✧ Pure tin plated terminal, Lead free. Leads
solderable per MIL-STD-202
Method 208
- ✧ Green compound with suffix "G" on packing
code & prefix "G" on datecode.



Dimensions in inches and (millimeters)

Marking Diagram



DBS15XG = Specific Device Code
G = Green Compound
Y = Year
WW = Work Week

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%

Type Number	Symbol	DBS 151G	DBS 152G	DBS 153G	DBS 154G	DBS 155G	DBS 156G	DBS 157G	DBS 158G	DBS 159G	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	840	980	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	1400	V
Maximum Average Forward Rectified Current @TA = 40 °C	I(AV)	1.5									A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	50									A
Rating for Fusing (t<8.3ms)	I²t	10.3									A²sec
Maximum Instantaneous Forward Voltage @ 1.5A	VF	1.1							1.25		V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @ TA=125 °C	IR	5.0 500									uA uA
Typical Thermal Resistance (Note)	RθJA RθJL	40 15									°C/W
Operating Temperature Range	TJ	-55 to +150									°C
Storage Temperature Range	TSTG	-55 to +150									°C

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on
P.C.B. with 0.4" x 0.4" (10mm x 10mm) Copper Pads.

Version: D08

RATINGS AND CHARACTERISTIC CURVES (DBS151G THRU DBS159G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

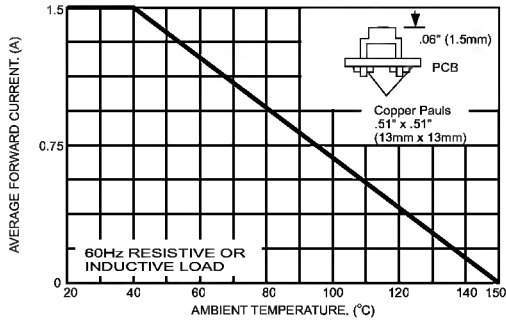


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

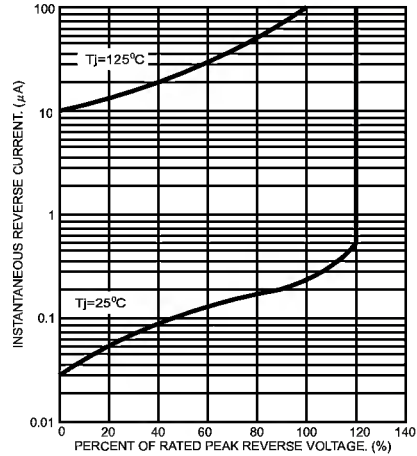


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

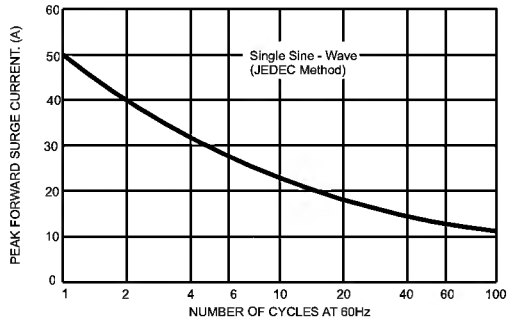


FIG.4- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

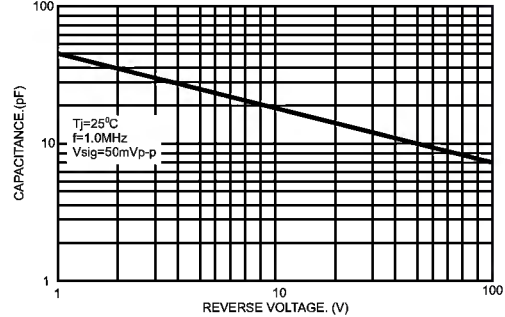


FIG.5- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

