



DB151G THRU DB157G

Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



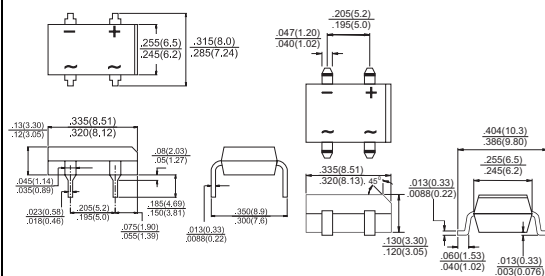
Voltage Range
50 to 1000 Volts
Current
1.5 Amperes

DB

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:
250°C / 10 seconds at 5 lbs., (2.3 kg)
tension
- ✧ Small size, simple installation
- ✧ Leads solderable per MIL-STD-202
Method 208



Dimensions in inches and (millimeters)

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	DB151G	DB152G	DB153G	DB154G	DB155G	DB156G	DB157G	Units
	DBS 151G	DBS 152G	DBS 153G	DBS 154G	DBS 155G	DBS 156G	DBS 157G	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T _A = 40°C	1.5							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage @ 1.5A	1.1							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	10 500							µA µA
Typical Thermal Resistance (Note) R _{θJA} R _{θJL}	40 15							°C/w
Operating Temperature Range T _J	-55 to +150							°C
Storage Temperature Range T _{STG}	-55 to +150							°C

Note: Thermal resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.47 x 0.47" (12 x 12mm) Copper Pads.

RATINGS AND CHARACTERISTIC CURVES (DB151G THRU DB157G)

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

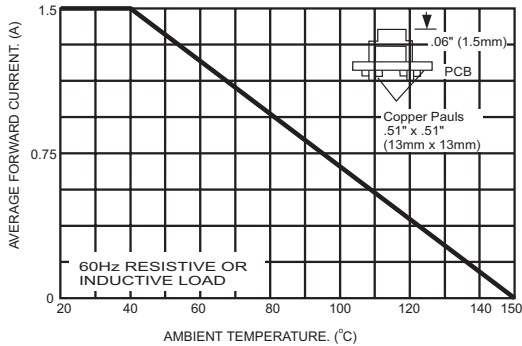


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

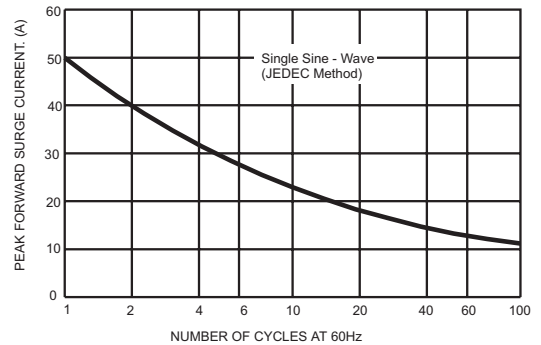


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

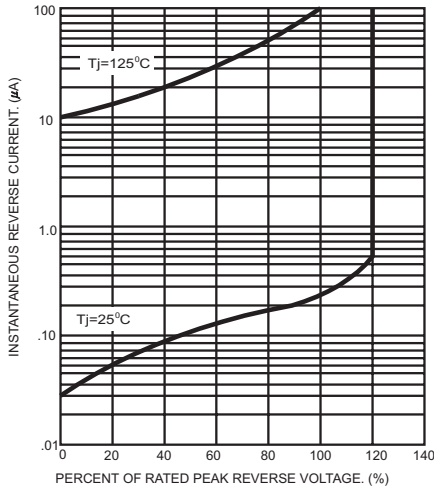


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

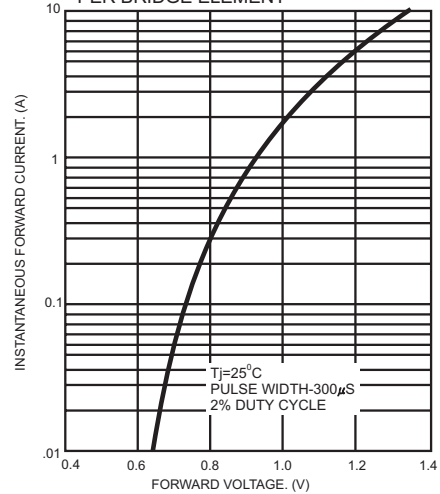


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

