Topdiode Manufacturing Company
Diode | Capacitors
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DB101(S) THRU DB107(S)

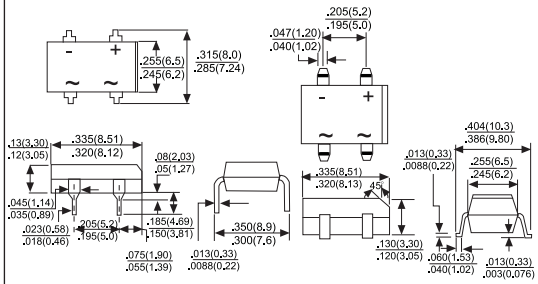
SINGLE PHASE 1.0AMP. GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range
50 to 1000 Volts
Current
1.0Ampere

FEATURES

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed:
- 250°C/10 seconds / 0.375"(9.5mm) lead length at 5 lbs.,(2.3kg)tension
- Small size,simple installation
  Leads solderable per MIL-STD-202, Method 208
- High surge current capability

DB DBS



Dimensions in inches and (millimeters)

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%

Type Number		DB101 DB 101S	DB102 DB 102S	DB103 DB 103S	DB104 DB 104S	DB105 DB 105S	DB106 DB 106S	DB107 DB 107S	UNITS
Maximum Repetitive 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	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated load (JEDEC method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage Drop Per leg @ 1.0A	V_F	1.1							V
Maximun DC Reverse Current @ T_A = 25°C at Rated DC Blocking Voltage @ T_A = 125°C	I_R	10 500							uA uA
Operating Temperature Range	T_J	-55 to+150							°C
Storage Temperature Range	T_{STG}	-55 to+150							°C

Note:DBS for Surface Mount Package.

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RATING AND CHARACTERISTIC CURVES
DB101(S) THRU DB107(S)

FIG.1 - MAXIMUN DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

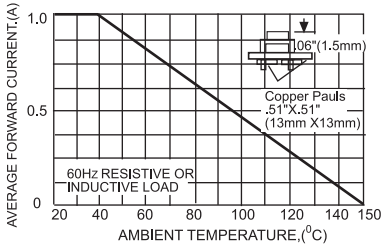

FIG.2 - MAXIMUN NON-REPETITIVE PEAK FORWARD SURGE CURRENT

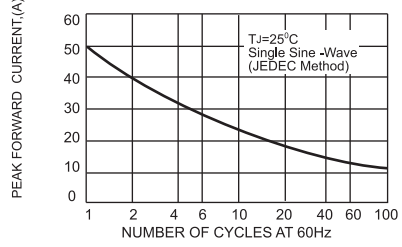

FIG.3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

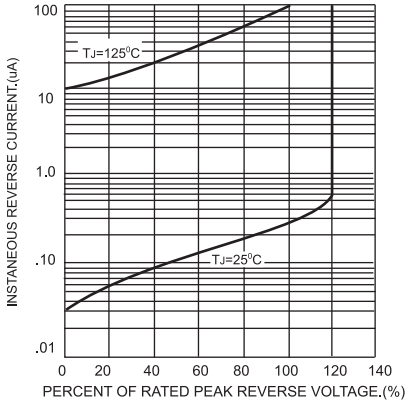

FIG.4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

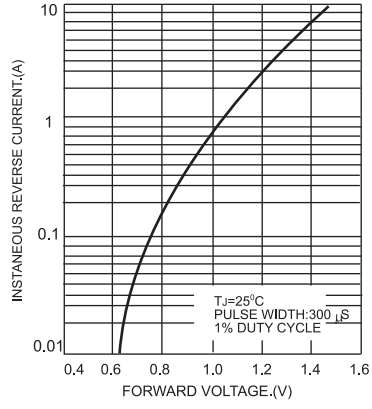

FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT