



DATA SHEET

SEMICONDUCTOR

DB151 THRU DB157

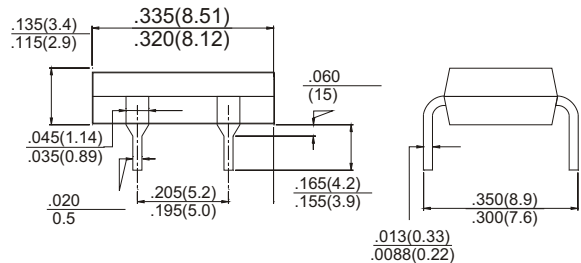
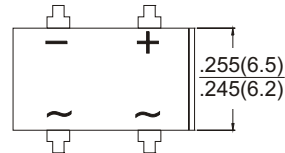
**SINGLE-PHASE GLASS PASSIVATED
VOLTAGE RANGE 50 to 1000
Volts CURRENT 1.5 Ampere**



DIP Unit:inch(mm)

FEATURES

- Good for automation insertion
- Surge overload rating - 50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded
- Glass passivated device
- Polarity symbols molded on body
- Mounting position: Any
- Weight: 1.0 gram
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

MAXIMUM RATINGS (At TA = 25oC unless otherwise noted)

RATINGS	SYMBOL	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 40oC	IO	1.5							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60							Amps
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150							

ELECTRICAL CHARACTERISTICS (At TA = 25oC unless otherwise noted)

CHARACTERISTICS	SYMBOL	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum Forward Voltage Drop per Bridge Element at 1.0A DC	VF	1.1							Volts
Maximum Forward Voltage Drop per Bridge	@TA = 25oC	5							uAmps
	@TA = 125oC	0.5							mAmps
DC Blocking Voltage per element									

DEVICE CHARACTERISTICS

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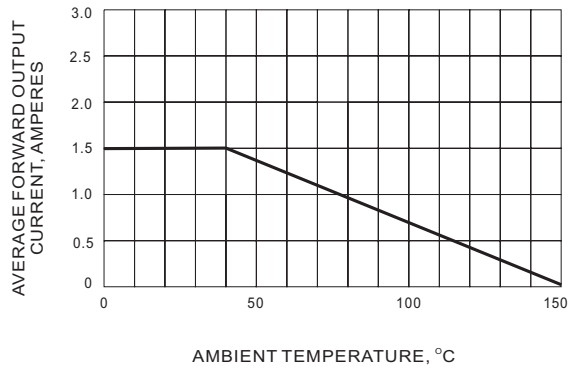


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

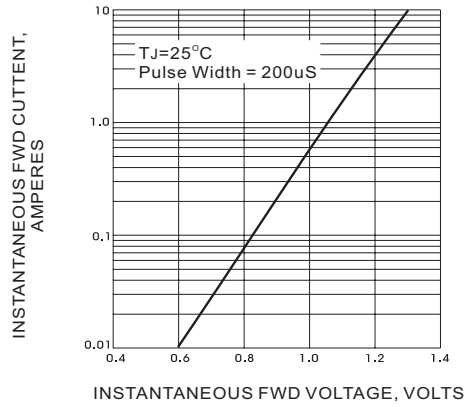


FIG.2 TYPICAL FORWARD CHARACTERISTICS

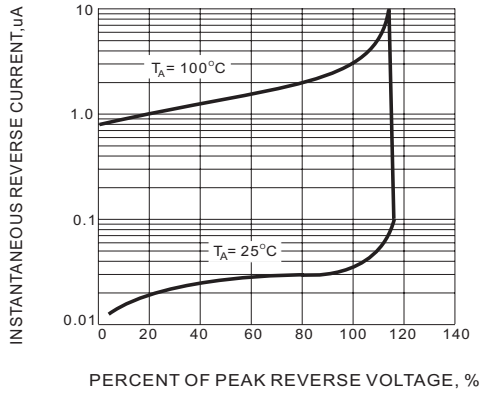


FIG.3 TYPICAL REVERSE CHARACTERISTICS

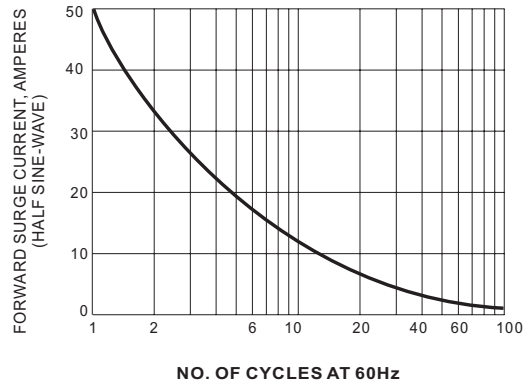


FIG.4 MAX NON-REPETITIVE SURGE CURRENT