

DB151(DF15005) THRU DB157(DF1510)



GLASS PASSIVATED BRIDGE RECTIFIER

Reverse Voltage: 50 to 1000 Volts
Forward Current: 1.5 Amps

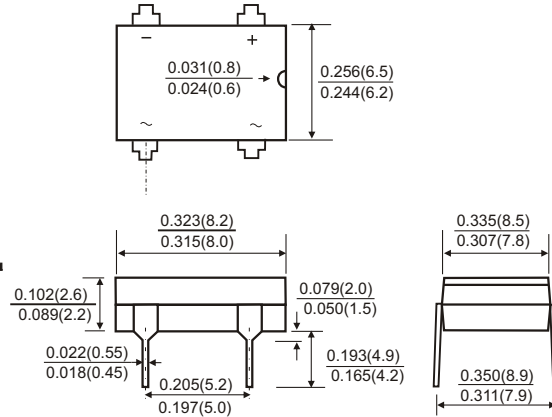
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: DBS molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Weight: 0.02ounce, 0.38 gram

DB



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%.)

	Symbols	DB151	DB152	DB153	DB154	DB155	DB156	DB157	Units
		DF 15005	DF 1501	DF 1502	DF 1504	DF 1506	DF 1508	DF 1510	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I(AV)	1.5							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50							Amps
Maximum Instantaneous Forward Voltage at 1.5 A DC	V _F	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	I _R	10						500	μA
		500							
Typical junction capacitance(Note 1)	C _J	25							pF
Typical thermal resistance(Note 2)	R _{θJA}	40							K/W
Operating junction and storage temperature range	T _J T _{STG}	-55 to +150							°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

2. Thermal resistance junction to ambient mounted on P.C.B. With 05*0.5 inches(1.3*1.3mm) copper pads

RATINGS AND CHARACTERISTIC CURVES DB151(DF15005) THRU DB157 (DF1510)

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

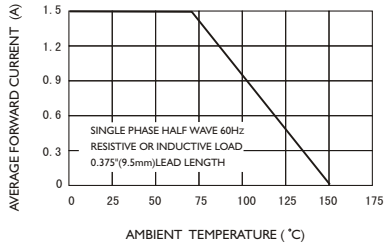


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

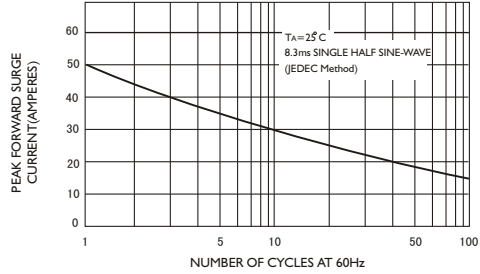


FIG3-TYPICAL JUNCTION CAPACITANCE

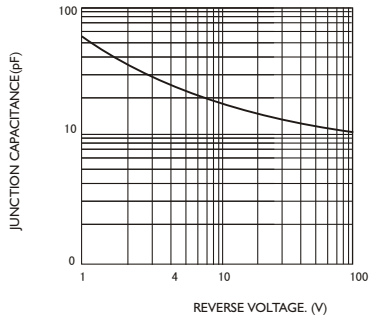


FIG4-TYPICAL FORWARD CHARACTERISTICS

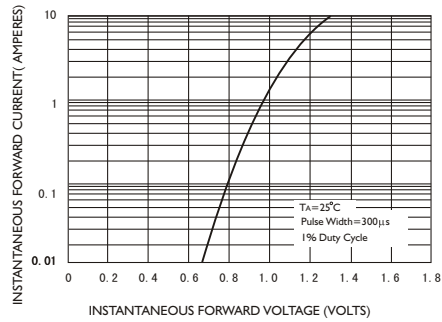


FIG.5-TYPICAL REVERSE CHARACTERISTICS

