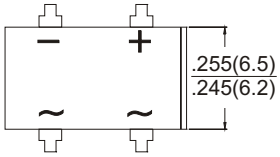
DATA SHEET

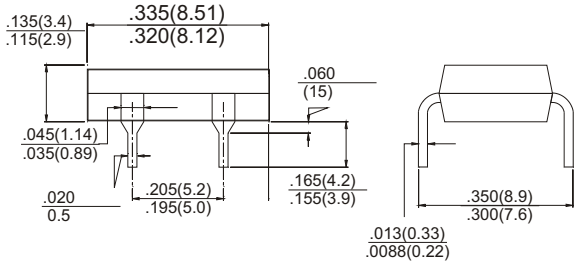
SEMICONDUCTOR

DB151 THRU DB157

SINGLE PHASE 1.5 AMP BRIDGE RECTIFIERS
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 1.5 Ampere Glass passivated type

DIP Unit:inch(mm)





FEATURES

Ideal for printed circuit board

Reliable low cost construction utilizing molded plastic technique

High surge current capability

Polarity: marked on body

Mounting position: Any

High temperature soldering : 260°C / 10 seconds at terminals

Pb free product at available : 99% Sn above meet RoHS environment substance directive request

Mechanical data

- Case : Molded plastic, DF
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Marked on body
- Mounting Position : Any

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	50							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**	IR	5							uAmps
DC Blocking Voltage per element	**@TA = 125oC**		0.5							mAmps

DEVICE CHARACTERISTICS

DB151 THRU DB157

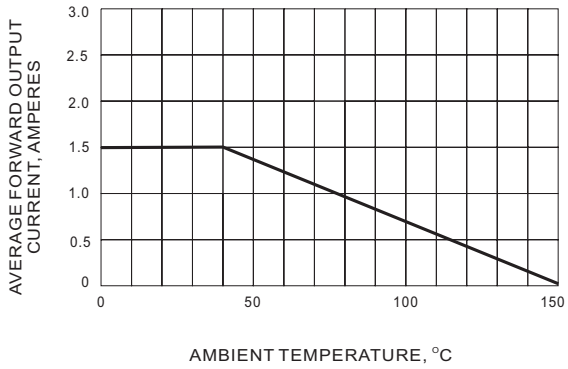


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

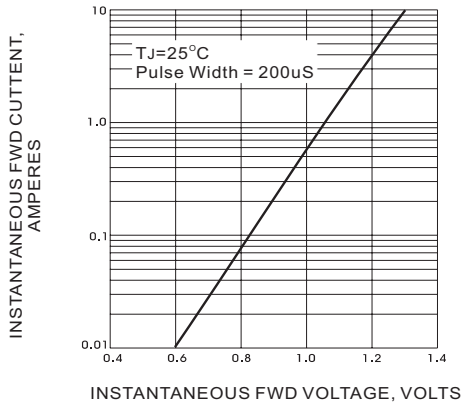


FIG.2 TYPICAL FORWARD CHARACTERISTICS

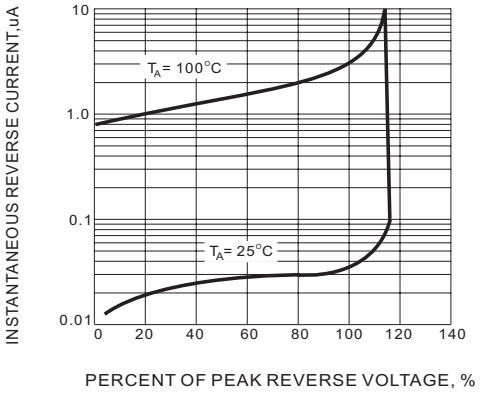


FIG.3 TYPICAL REVERSE CHARACTERISTICS

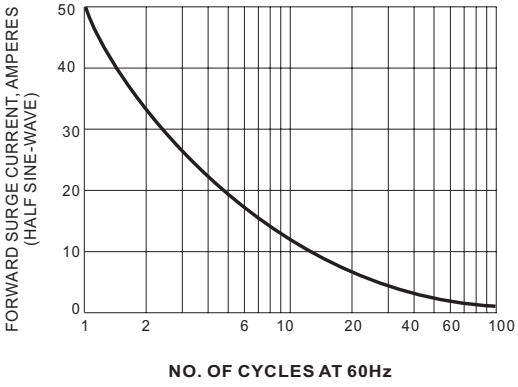


FIG.4 MAX NON-REPETITIVE SURGE CURRENT