

RoHS Compliant Product

FEATURES

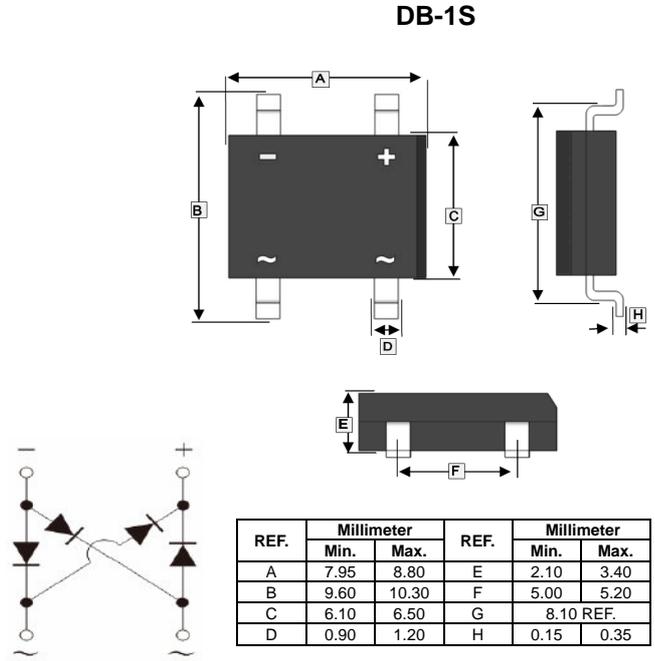
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

MECHANICAL DATA

- Case: DB-1S, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting position: Any
- Marking: Type Number

ORDER INFORMATION

Part Number	Type
DB151S~DB157S	Lead (Pb)-free
DB151SH~DB157SH	Lead (Pb)-free and Halogen-free



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, de-rate current by 20%.)

Parameter	Symbol	Part Number							Unit
		DB 151S	DB 152S	DB 153S	DB 154S	DB 155S	DB 156S	DB 157S	
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current ¹	I_F	1.5							A
Non-Repetitive Peak Forward Surge Current, 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	55							A
Rating for Fusing (t<8.3ms)	I^2t	12.5							A ² S
Forward Voltage per element	V_F	1							V
Peak Reverse Current @ Rated DC Blocking Voltage	$T_J=25^\circ C$	5							μA
	$T_J=125^\circ C$	100							
Typical Junction Capacitance ²	C_J	20							pF
Typical Thermal Resistance	$R_{\theta JA}$	40							$^\circ C/W$
	$R_{\theta JL}$	15							
Operating & Storage Temperature Range	T_J, T_{STG}	-55~150							$^\circ C$

Notes:

1. Mounted on glass epoxy PC board with 1.3mm² solder pad.
2. Measured at 1MHz and applied reverse voltage of 4V D.C.

TYPICAL CHARACTERISTIC CURVES

Fig. 1 Output Current Derating Curve

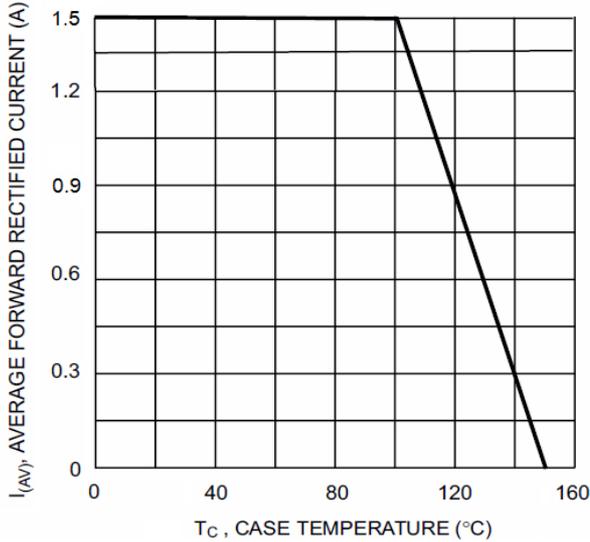


Fig. 2 Typical Forward Characteristics

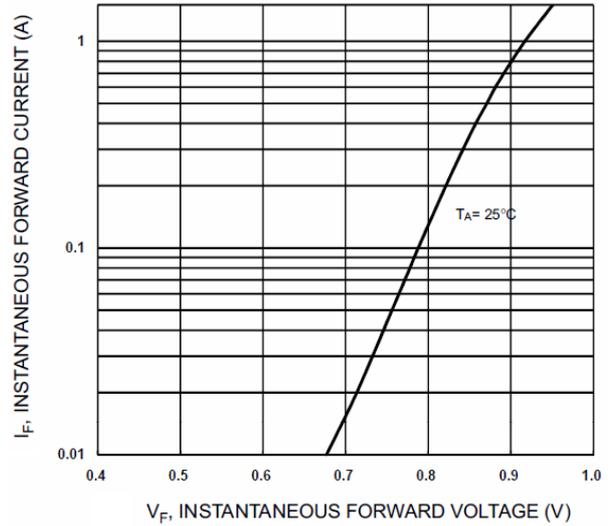


Fig. 3 Maximum Peak Forward Surge Current

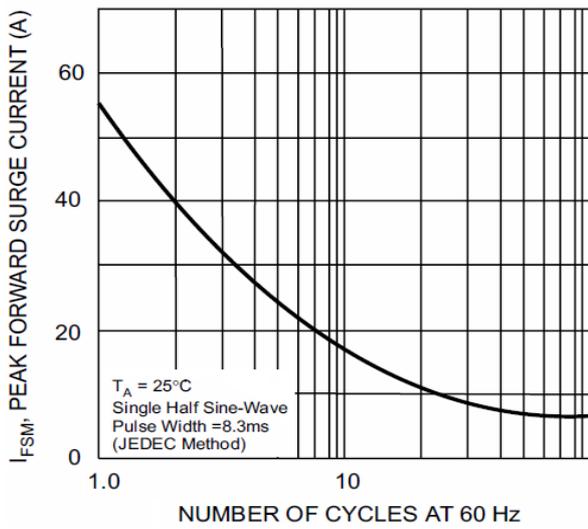


Fig. 4 Typical Reverse Characteristics

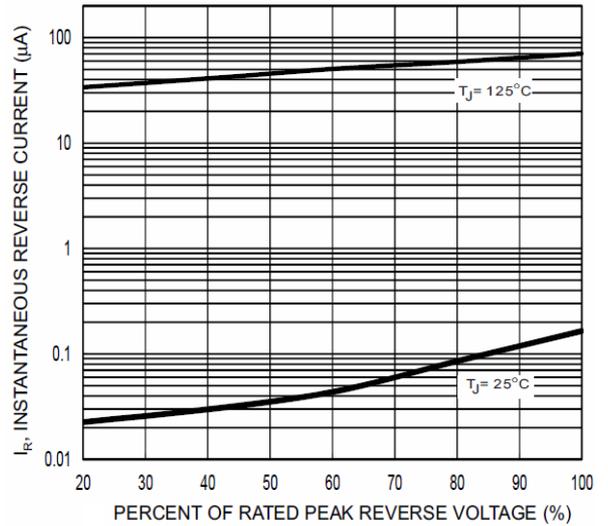


Fig. 5 Typical Junction Capacitance

