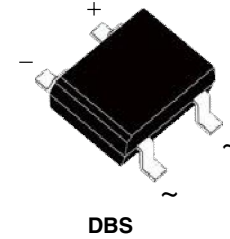
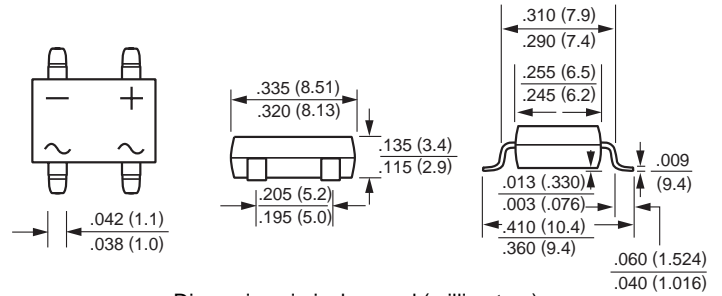


FEATURES

- UL Recognized Component
- High surge current capability
- Ideal for Printed Circuit Board
- Plastic Package - UL Flammability Classification 94V-0


MECHANICAL DATA

- Case: Transfer Molded Epoxy
- Mounting Position: Any
- Terminals: Plated leads solderable per MTL-STD-750, Method 2026


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	DB 101S	DB 102S	DB 103S	DB 104S	DB 105S	DB 106S	DB 107S	Unit	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Input 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	
Average Rectified Output Current @ $T_A = 40^\circ\text{C}$	$I_{F(AV)}$	1.0							A	
Peak Forward Surge Current Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A	
Forward Voltage drop per Element at $I_F = 1.0\text{A}$	V_F	1.1							V	
Peak Reverse Current At Rated DC Blocking Voltage	I_R								10	μA
									1.0	mA
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	40							$^\circ\text{C/W}$	
Storage and Operating Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$	

Notes: 1. Thermal resistance from junction to ambient mounted on PC board with 13mm x 13mm copper pads.

Typical Characteristics

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

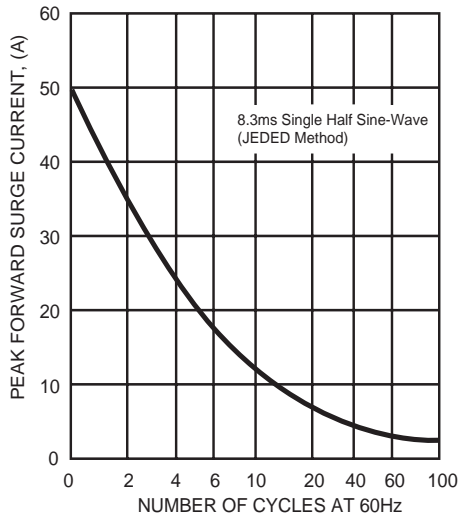


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

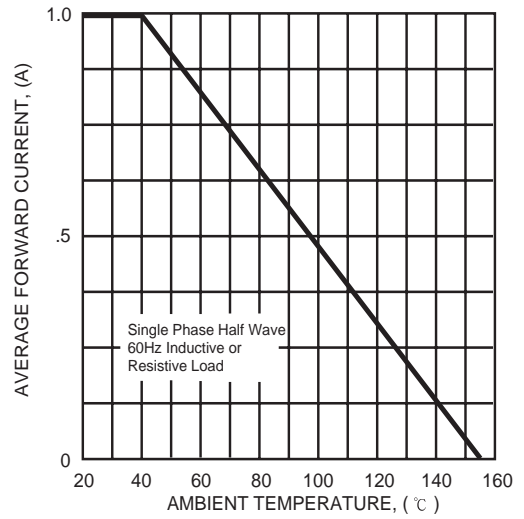


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

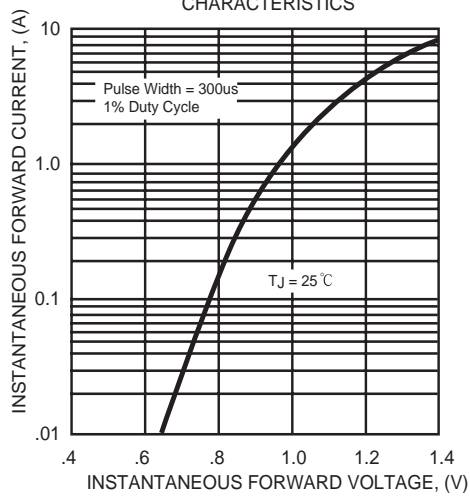


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

