

Features

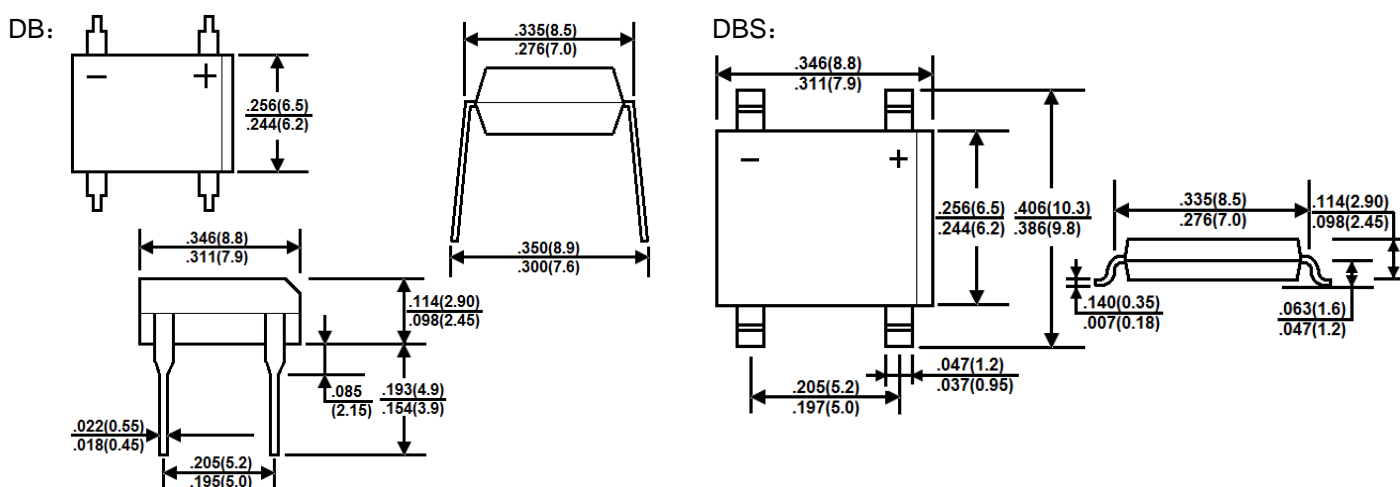
- * Ideal For Printed Circuit Board
- * Reliable low cost construction utilizing molded plastic Technique
- * High Surge Current Capability
- * Small Size, Simple Installation
- * Leads Solderable per MIL-STD-202 method 208



RoHS
COMPLIANT



Package Outline Dimensions in inches (millimeters)



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%.

Type Number	Symbol	DB 101(S)	DB 102(S)	DB 103(S)	DB 104(S)	DB 105(S)	DB 106(S)	DB 107(S)	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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
Maximum Average Forward Rectified Current at $T_A=40^{\circ}C$	$I_F(av)$	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50.0							A
Maximum Instantaneous Forward Voltage at forward current 1.0A	V_F	1.10							V
Maximum DC Reverse Current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=125^{\circ}C$	I_R	10 500							μA μA
I^2t Rating for Fusing($t<8.3ms$)	I^2t	10.4							A^2S
Typical Junction Capacitance Per Element(Note1)	C_J	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	40							$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J / T_{stg}	-55 to +150							$^{\circ}C$

Note: 1、 measured at 1.0 MHz and applied reverse voltage of 4.0 DC

2、 thermal resistance from junction to ambient mounted on P.C.B with $0.5 \times 0.5(13 \times 13mm)$ copper pads.

Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

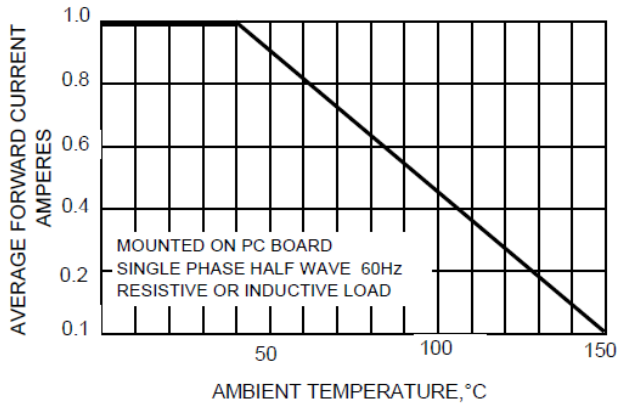


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

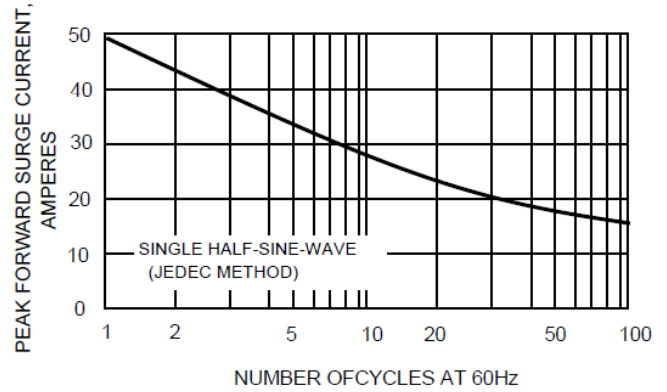


FIG.3-TYPICAL JUNCTION CAPACITANCE

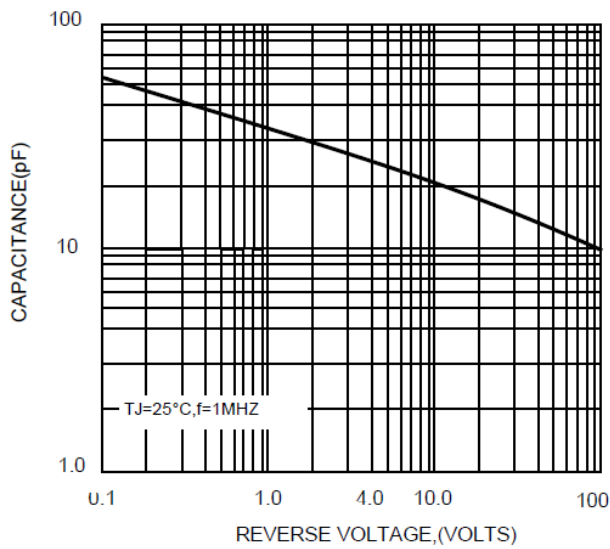


FIG.4-TYPICAL FORWARD CHARACTERISTICS

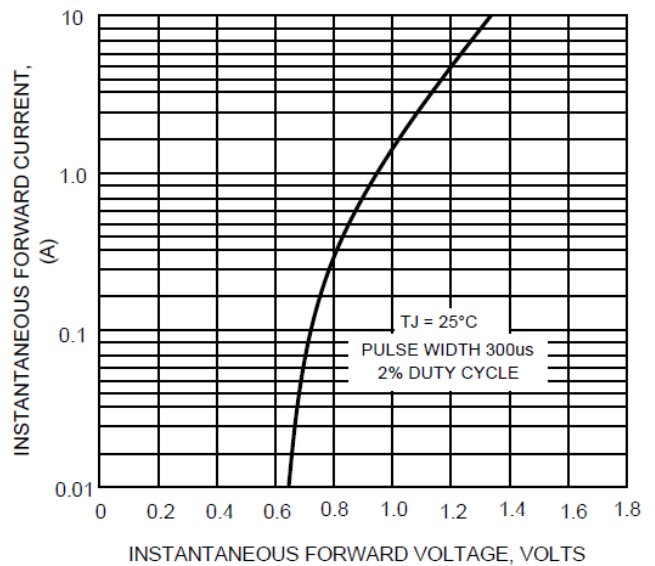
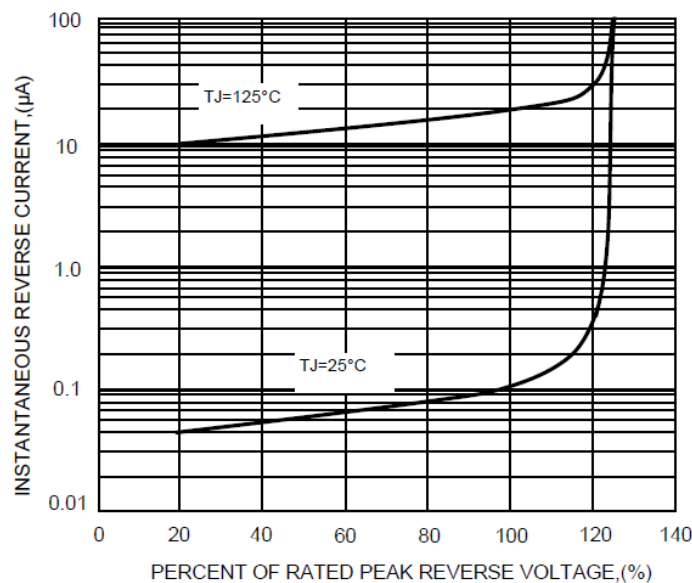


FIG.5-TYPICAL REVERSE CHARACTERISTICS





DB101(S) THRU DB107(S)

Glass Passivated Bridge Rectifiers

Ordering Information

Part No.	Package	Packing
DB101~DB107	DB	50pcs/Tube
DB101S~DB107S	DBS	1K/Reel