

## Features

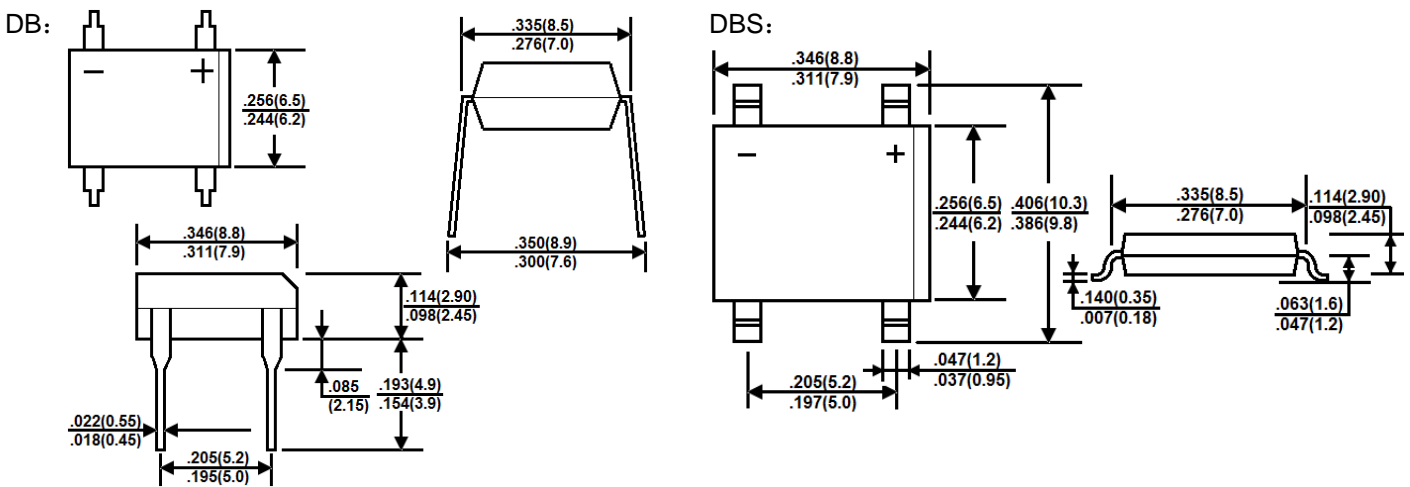
- \* Ideal For Printed Circuit Board
- \* Reliable low cost construction utilizing molded plastic Technique
- \* High Surge Current Capability
- \* Small Size, Simple Installation
- \* Leads Solderable per MIL-STD-202 method 208



**RoHS**  
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## 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 $T_A=40^\circ\text{C}$	$I_F(\text{av})$	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 $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$	$I_R$	10 500							$\mu\text{A}$ $\mu\text{A}$
$I^2t$ Rating for Fusing( $t<8.3\text{ms}$ )	$I^2t$	10.4							$\text{A}^2\text{S}$
Typical Junction Capacitance Per Element(Note1)	$C_J$	25							pF
Typical Thermal Resistance (Note2)	$R_{\theta JC}$	40							$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J / T_{stg}$	-55 to +150							$^\circ\text{C}$

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  $0.5 \times 0.5(13 \times 13\text{mm})$  copper pads.

### Ratings and Characteristic Curves

FIG.1-FORWARD CURRENT DERATING CURVE

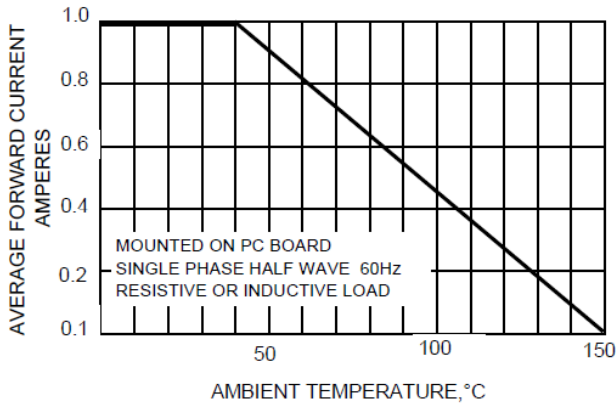


FIG.2-MXIMUM NON-REPETITIVE SURGE CURRENT

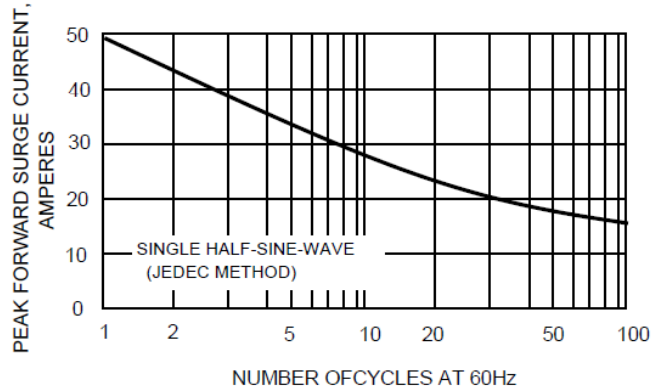


FIG.3-TYPICAL JUNCTION CAPACITANCE

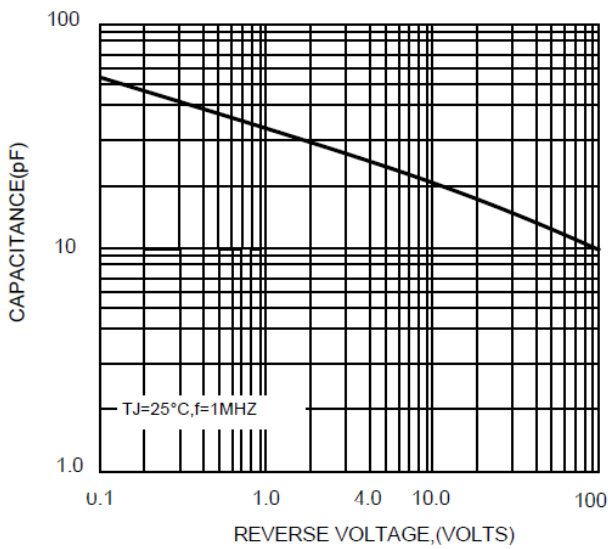


FIG.4-TYPICAL FORWARD CHARACTERISTICS

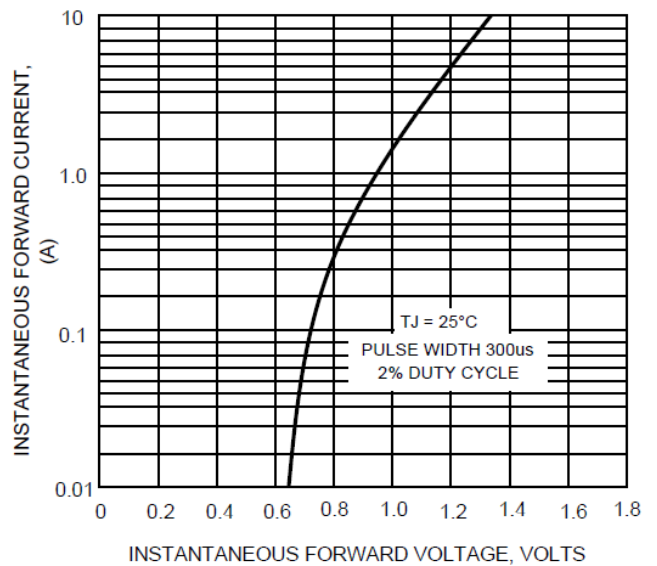
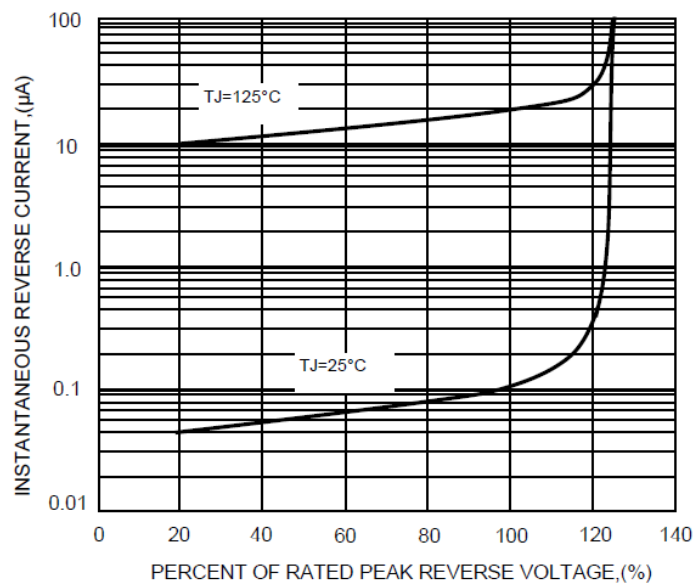


FIG.5-TYPICAL REVERSE CHARACTERISTICS





## 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

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