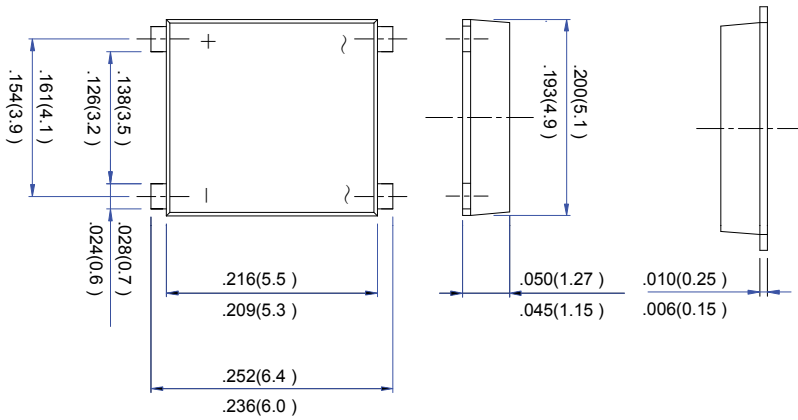
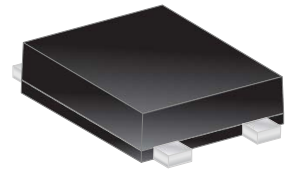




EBS101 thru EBS107



Glass Passivated Bridge Rectifier



EBS

Dimensions in inches and (millimeters)

Ordering Information	
Part Number	Remark
EBS10x-H	Halogen Free
EBS10x-Q	Automotive

PRIMARY CHARACTERISTICS	
I_F	1A
V_{RRM}	50~1000V
I_{FSM}	30A
V_F	1.1V
$T_J \text{ max}$	150°C

Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead tin plated copper
- UL NO:E355733
- AEC-Q101 qualified

MECHANICAL DATA

- Polarity: Symbol molded on body
- Weight: 0.092 grams (approximate)

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	EBS101	EBS102	EBS103	EBS104	EBS105	EBS106	EBS107	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge 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
Maximum Average Forward Rectified Output	I_F	1.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30.0							A
Non-repetitive peak forward surge current square waveform $t_p = 1 \text{ ms}$	I_{FSM}	50.0							A
Maximum Forward Voltage Drop Per Bridge Element at 1A Peak	V_F	1.1							V
Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_J=100^\circ\text{C}$	I_R	5 200							uA
Typical Junction Capacitance(NOTE1)	C_j	25.0							Pf
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	50.0							°C / W
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

NOTES:

1. Thermal resistance junction to case
2. Device mounted on FR-4 substrate, 1"×1", 2oz, single-sided, PC boards with 0.1"×0.15" copper pad.



Glass Passivated Bridge Rectifier

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

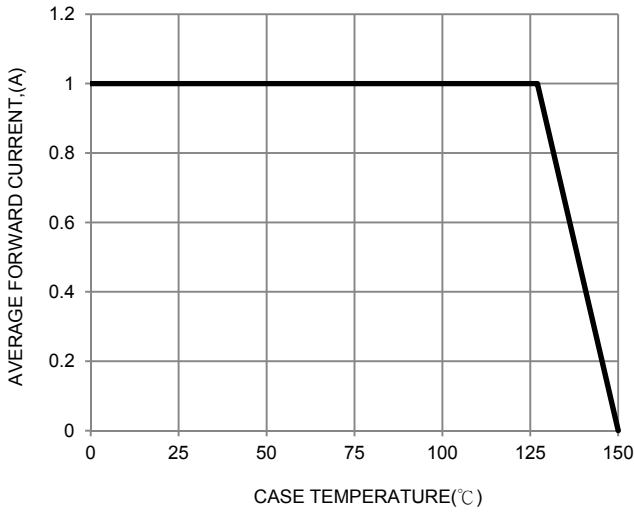


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

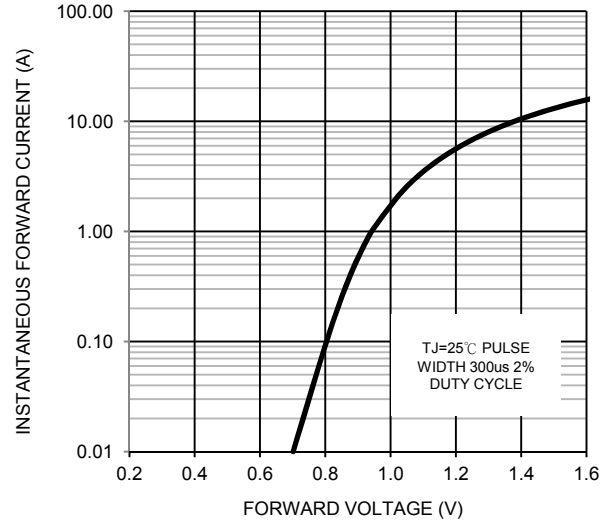


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

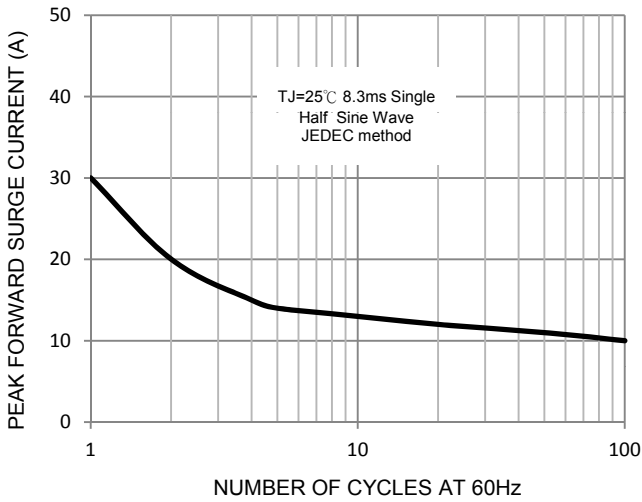


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

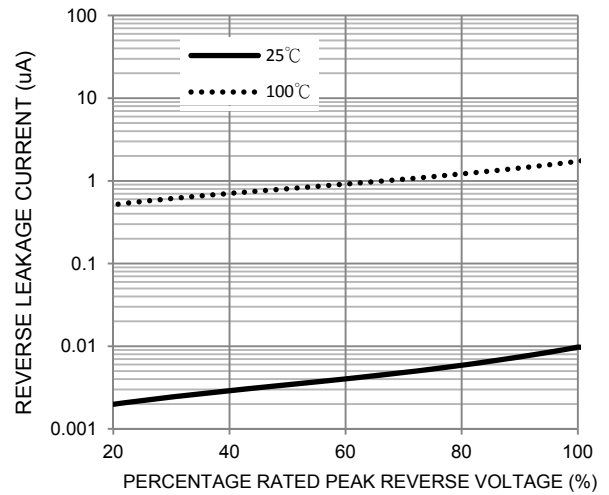


FIG. 5-TYPICAL JUNCTION CAPACITANCE

