AB005S-E THRU AB10S-E

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE: 50V to 1000V **CURRENT: 0.8A**

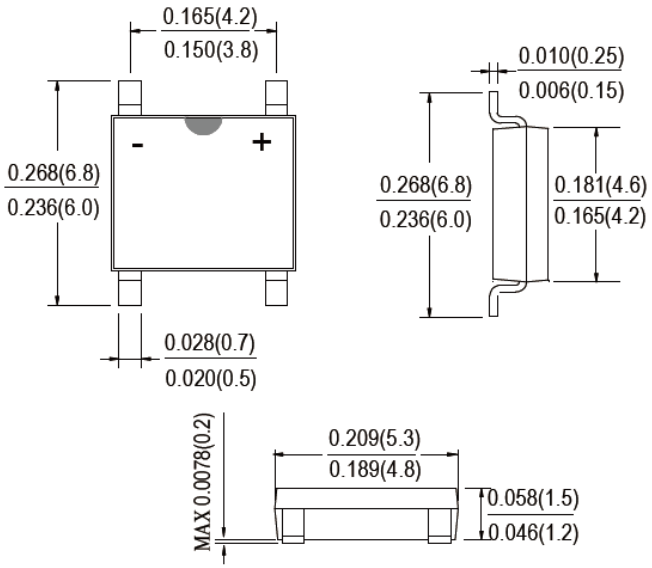
FEATURE

Ideal for printed circuit board
Glass passivated chip
Reliable low cost construction utilizing molded plastic technique
Small size, simple installation
High temperature soldering guaranteed: 260℃/10 seconds
Halogen Free

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
Case:UL-94 Class V-0 recognized Halogen Free Epoxy
Polarity: Polarity symbol marked on body

ABS



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	AB005S-E	AB01S-E	AB02S-E	AB04S-E	AB06S-E	AB08S-E	AB10S-E	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	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 (Note 1)	If(av)	0.5 0.8							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30							A
Rating for fusing (t＜8.3ms)	I^2t	3.74							A^2sec
Maximum Instantaneous Forward Voltage @IF=0.5A @IF=0.8A	Vf	0.95 1.0							V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =125℃	Ir	5.0 200							μA
Typical Thermal resistance per leg	Rth(jl) Rth(ja)	25 62.5							℃/W
Storage and Operating Junction Temperature Range	Tstg, Tj	-55 to +150							℃

Note:
1. Mounted on glass epoxy PC board with 1.3mm^2 solder pad

RATINGS AND CHARACTERISTIC CURVES AB005S-E THRU AB10S-E

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

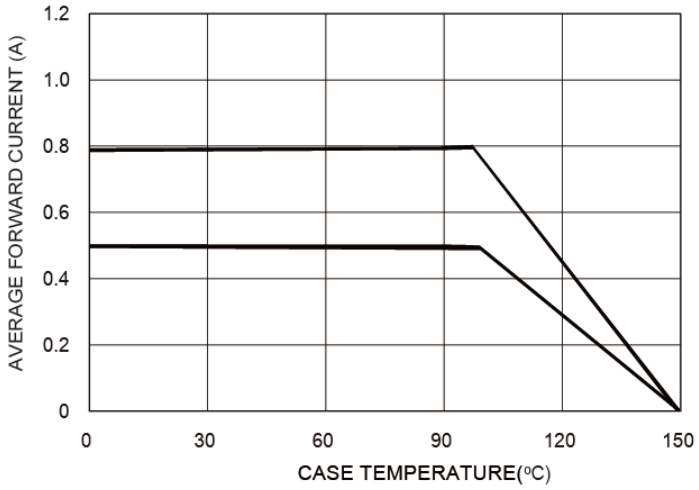


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

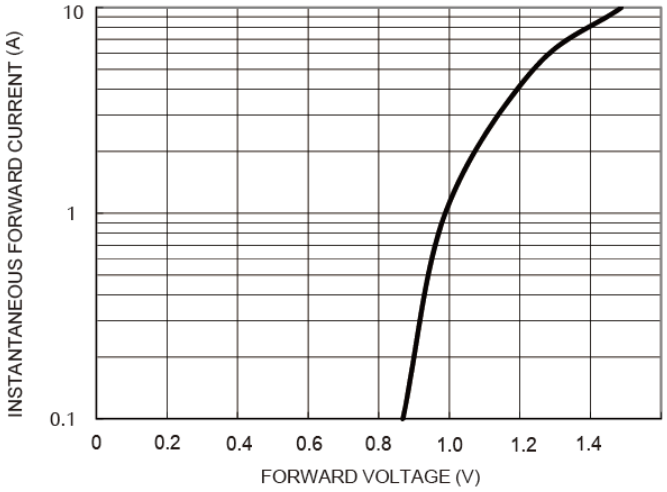


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

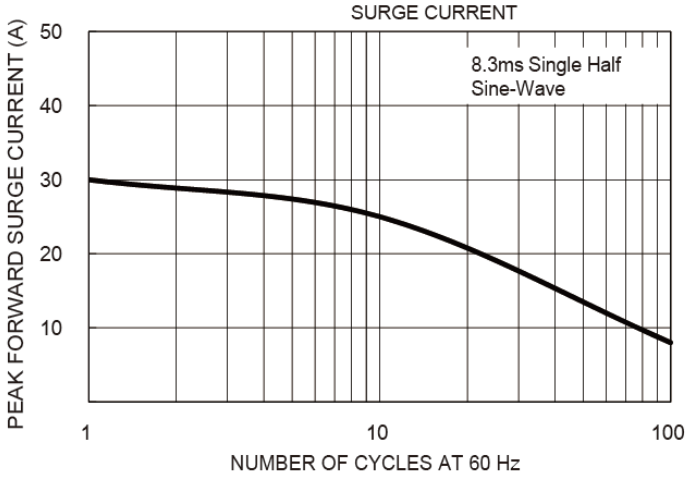


FIG. 4 TYPICAL REVERSE CHARACTERISTICS