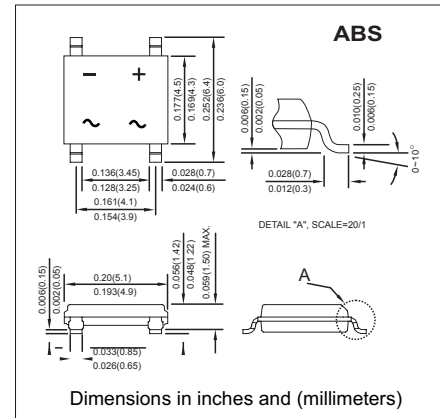


Surface Mount Single Phase Glass Passivated Bridge Rectifiers ABS10

Features

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability



Absolute Maximum Ratings and Electrical Characteristics Ta = 25

Parameter	Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS Voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _R	1000	V
Maximum Average Forward Rectified Current	I <sub(av)< sub=""></sub(av)<>	0.8	A
On glass-epoxy P.C.B.		1.0	
On aluminum substrate			
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30	A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	10	A ² s
Maximum Instantaneous Forward Voltage @ 0.4A	V _F	0.95	V
Maximum DC Reverse Current at V _R @ T _A =25	I _R	10	μA
@ T _A =125		150	
Typical Junction Capacitance per leg (Note 1)	C _J	25	pF
Typical Thermal resistance Junction to Lead	R _{JL}	25	/W
On aluminum substrate	R _{JA}	62.5	
On Glass-Epoxy substrate		80	
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to 150	

Note: 1. On glass epoxy P.C.B. mouted on 0.05×0.05"(1.3×1.3mm) pads.

■ Marking

Marking	ABS10
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ABS10

■ Typical Characteristics

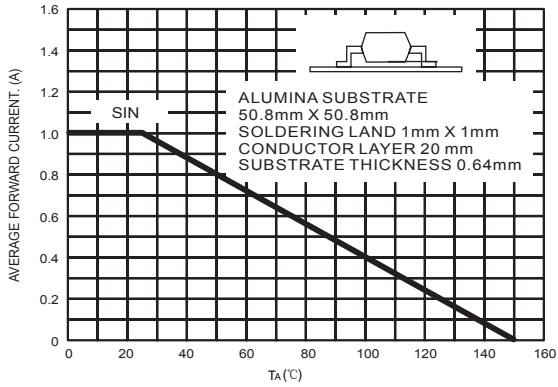


FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

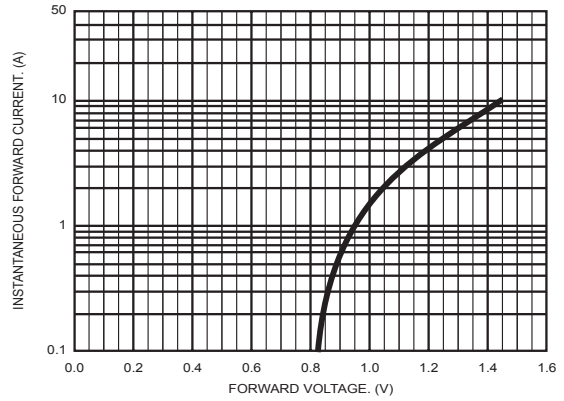


FIG.2- TYPICAL FORWARD CHARACTERISTICS

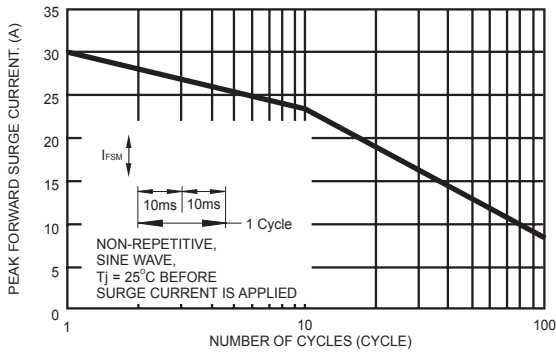


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

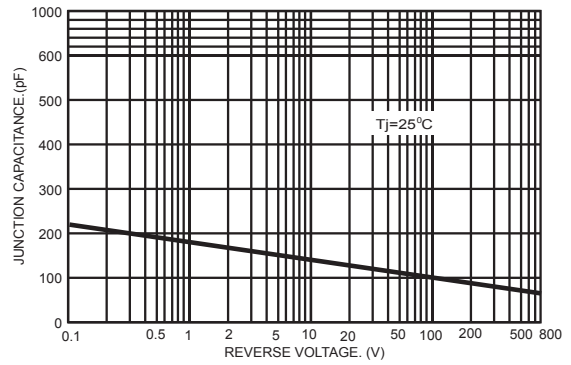


FIG.4- TYPICAL JUNCTION CAPACITANCE

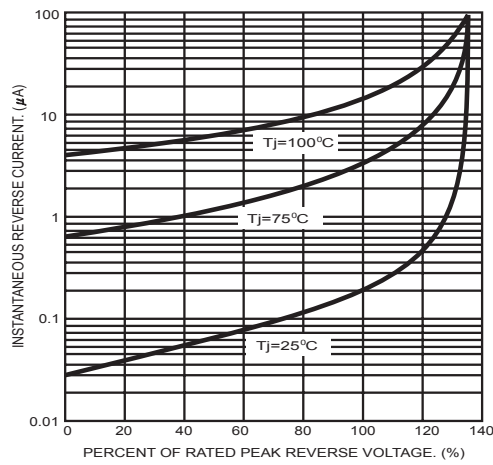


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT