Single Phase 0.8AMP Surface Mount Glass Passivated Bridge Rectifier

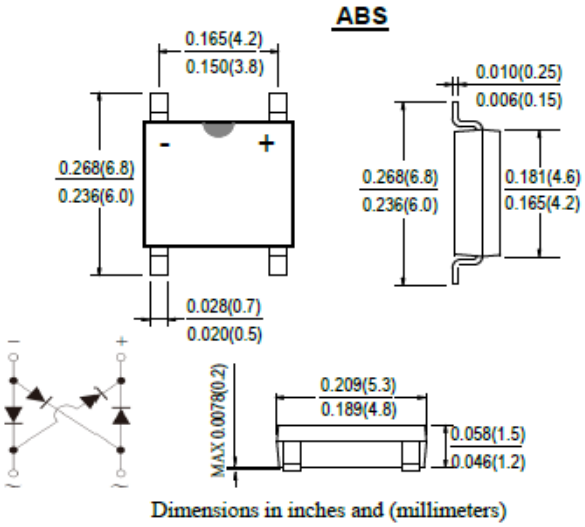
ABS2 THRU ABS10

Features

- Glass Passivated Die Construction
- Low forward voltage drop
- High surge current capability
- Ideal for printed circuit board
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

Mechanical Data

Case: SOPA-4, molded plastic ABS
Terminals: Plated Leads Solderabl per MIL-STD-202, Method208
Polarity: As Marked on Case
Mounting Position: Any
Marking: Type Number



Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified
Single phase, half wave,60Hz, resistive or inductive load
For capacitive load derate current by 20%

TYPE NUMBER	SYMBOL	ABS2	ABS4	ABS6	ABS8	ABS10	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}						
DC Blocking Voltage	V_{DC}						
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T_C =100℃	$I_{F(AV)}$	0.5 0.8					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
I^2t Rating for Fusing (t < 8.3ms)	I^2t	3.74					A^2s
Forward Voltage per element @I_F=0.5A @I_F=0.8A	V_{FM}	0.95 1.0					V
Peak Reverse Current @T_A=25℃ At Rated DC Blocking Voltage @T_A=125℃	I_R	5.0 200					uA
Typical Thermal Resistance per leg	$R_{\theta JA}$	62.5					℃/W
	$R_{\theta JL}$	25					
Operating and Storage Temperature Range	T_J,T_{STG}	-55to+150					℃

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RATINGSANDCHARACTERISTICCURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

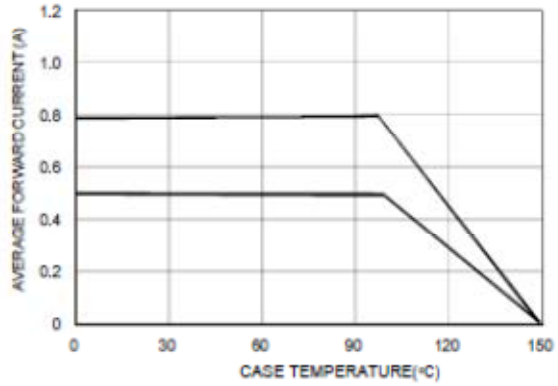


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

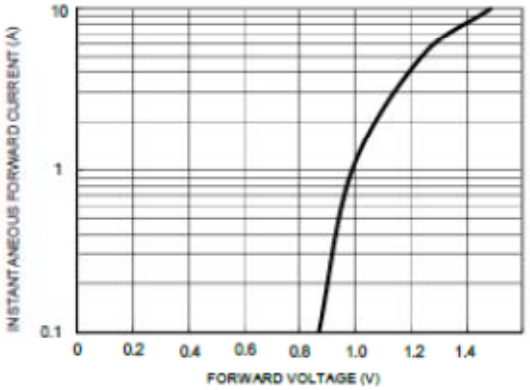


FIG.3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

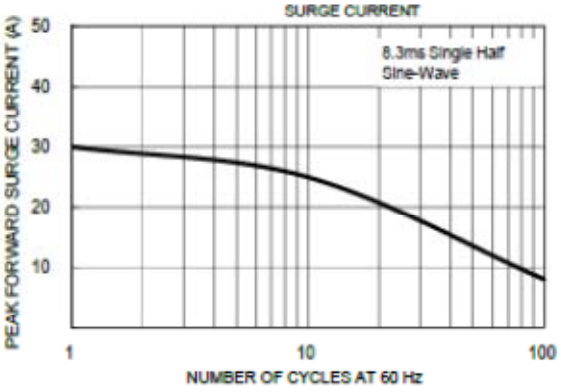
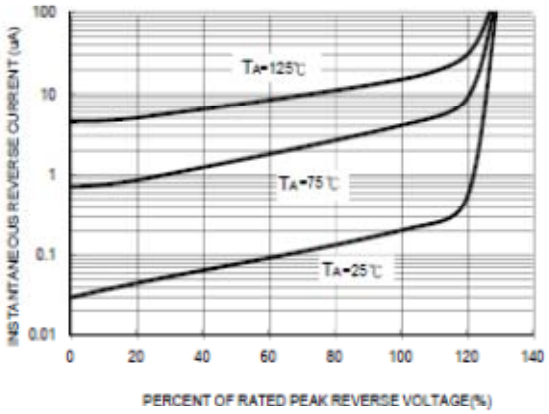


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



ABS PAD LAYOUT