Suntan® Su®

ABS2 THRU ABS10

Single Phase 1.0 AMPS.Glass Passivated Bridge Rectifiers

Voltage Range 200 to 1000 Volts Current1.0 Amperes

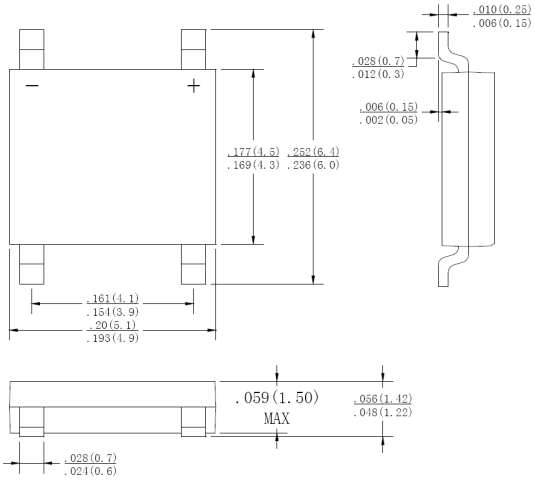
FEATURES

- ◆Ideal for printed circuit board
- ◆Reliable low cost construction technique results in inexpensive product
- ◆High temperature soldering guaranteed: 260℃ / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- ◆UL Recognized File number: E347215

MECHANICAL DATA

- ◆Case: Molded plastic
- ◆Lead: solder plated
- ◆Polarity: As marked

ABS



Dimensions in inches and (millimeters)

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		ABS2	ABS4	ABS6	ABS8	ABS10	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current On glass-epoxy P.C.B. On aluminum substrate	$I_{(AV)}$	0.8 1.0					A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30					A
Maximum Instantaneous Forward Voltage at 0.4A	V_F	0.95					V
Maximum DC Reverse Current @ T_A=25℃ Rated DC Blocking voltage per leg T_A=125℃	I_R	10 150					μA
Typical Thermal Resistance (Note1) (Note2)	$R_{\theta JA}$ $R_{\theta JL}$	62.5 25					℃/W
Operating Temperature Range	T_J	-55 to +150					℃
Storage Temperature Range	T_{STG}	-55 to +150					℃

Note: 1. 1.On aluminum suvstrate P.C.B. with an area of 0.8×0.8"(20×20mm) mounted on 0.05×0.05"(1.3×1.3mm) solder pad.

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

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RATING AND CHARACTERISTIC CURVES ABS2 THRU ABS10

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELELMENT

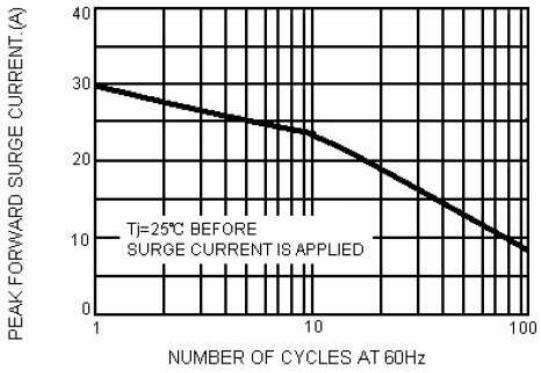


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

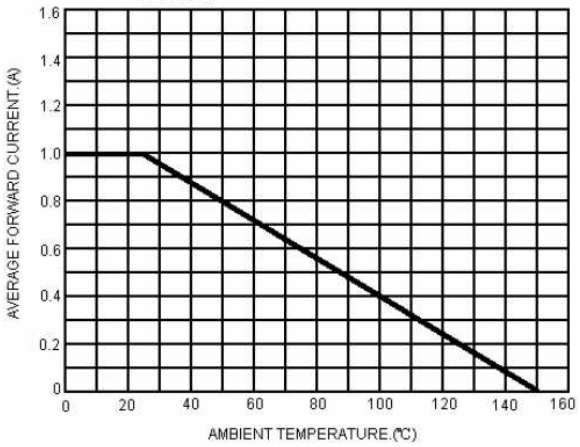


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

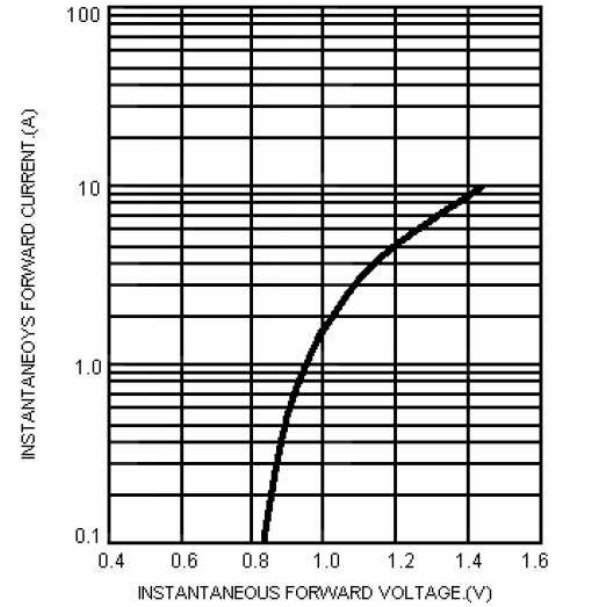
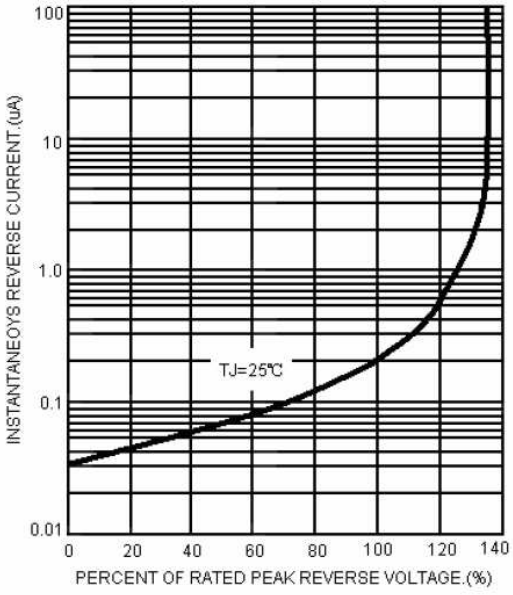


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specification are subject to change without notice. For more detail and update, please visit our website.