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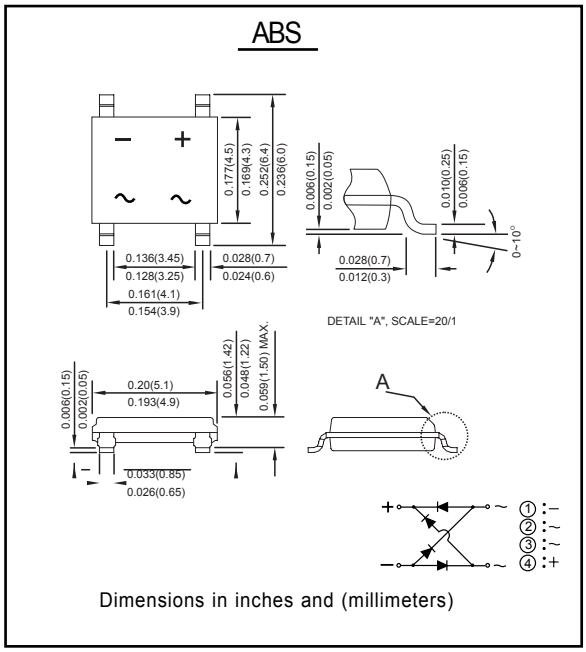
ABS1 THRU ABS10

MINI SILICON SURFACE MOUNT BRIDGE RECTIFIER

Reverse Voltage - 100 to 1000 Volts Forward Current - 1.0 Ampere

FEATURES

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



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case : Molded Plastic
- Epoxy : Device has UL flammability classification 94V-0
- Mounting Position : Any
- Marking : Type Number

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Characteristic	Symbol	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	V
Average Rectified Output Current -On glass-epoxy P.C.B. -On aluminum substrate	I_O	0.8 1.0						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	10						A^2s
Forward Voltage per element @I_F = 0.4A	V_{FM}	0.95						V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 125°C	I_{RM}	10 150						μA
Typical Junction Capacitance per leg (Note 2)	C_j	25						pF
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	62.5 25						°C/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150						°C

Note: 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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RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

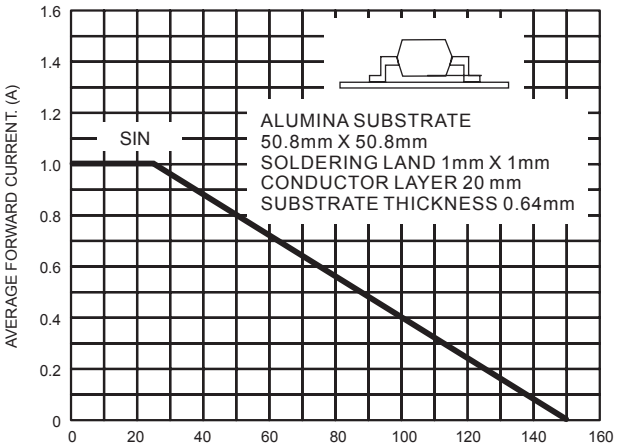


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

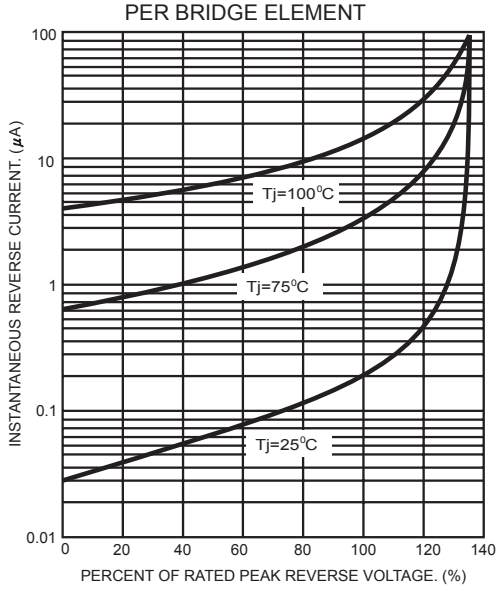


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

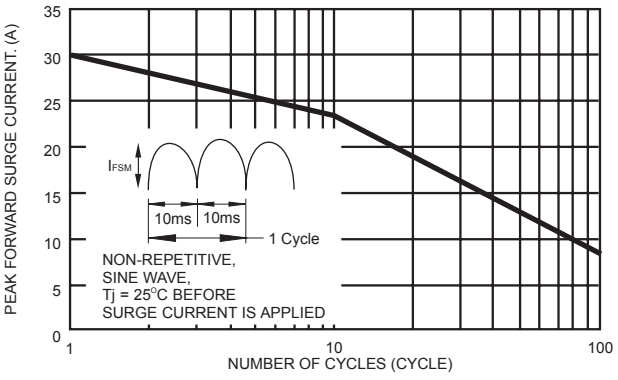


FIG.4- TYPICAL JUNCTION CAPACITANCE

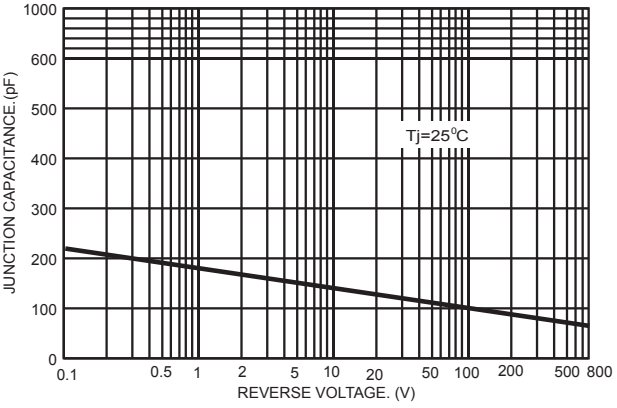


FIG.5- TYPICAL FORWARD CHARACTERISTICS

