



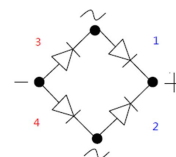
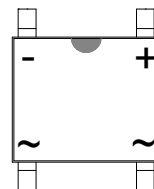
2A Surface Mount Glass Passivated Bridge Rectifiers

PRIMARY CHARACTERISTICS

V_{RRM}	50V,400V 600V,800V,1000V
$I_{(AV)}$	2A
V_F	1.2V
$T_{J,Max}$	150°C

ABS PACKAGE

Making : Type number



FEATURES

- Glass passivated chip junction
- Ideal for surface mounted applications
- Low leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic,ABS
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-202E,Method 208C
- Epoxy : UL94-V0 rated flame retardant

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 derate current by 20%

RATINGS		SYMBOL	ABS20AN	ABS20DN	ABS20JN	ABS20KN	ABS20MN	UNITS
Max. Reverse Breakdown Voltage		V_{RM}	50	400	600	800	1000	Volts
Maximum RMS Volts		V_{RMS}	420	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, 0.06"(1.5mm) lead length(Note2)	@ $T_L=90^\circ C$	$I_{(AV)}$	2					Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC		I_{FSM}	55					Amps
Rating for Fusing ($t < 8.3ms$)		I^2t	10.37					A ² s
Typical Thermal Resistance (Note 1)		$R_{\theta JL}$	8					°C/W
Typical Thermal Resistance (Note 2)		$R_{\theta JA}$	25					°C/W
Operating Storage Temperature Range		T_J	150					°C
Storage Temperature Range		T_{STG}	-55 ~ +150					°C

ELECTRICAL CHARACTERISTICS (At $T_A = 25^\circ C$ unless otherwise noted)

CHARACTERISTICS		SYMBOL	ABS20AN	ABS20DN	ABS20JN	ABS20KN	ABS20MN	UNITS
Marking Code			ABS20AN	ABS20DN	ABS20JN	ABS20KN	ABS20MN	
Maximum Instantaneous Forward Voltage drop Per Bridge element 2.0A		V _F	1.2					Volts
Maximum Reverse Current at rated DC blocking voltage per element	@T _A = 25°C	I _R	5					uAmps
	@T _A =125°C		150					

Note : 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

2. Unit mounted on P.C.B. with 5.72mm×7.22mm copper pads.



FIG.1 FORWARD CURRENT DERATING CURVE

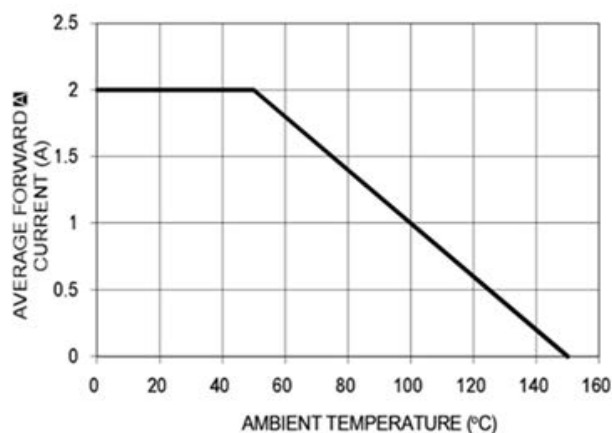


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

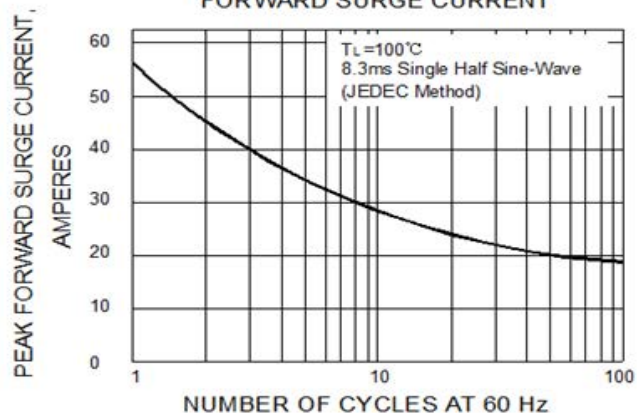


FIG.3 TYPICAL REVERSE CHARACTERISTICS

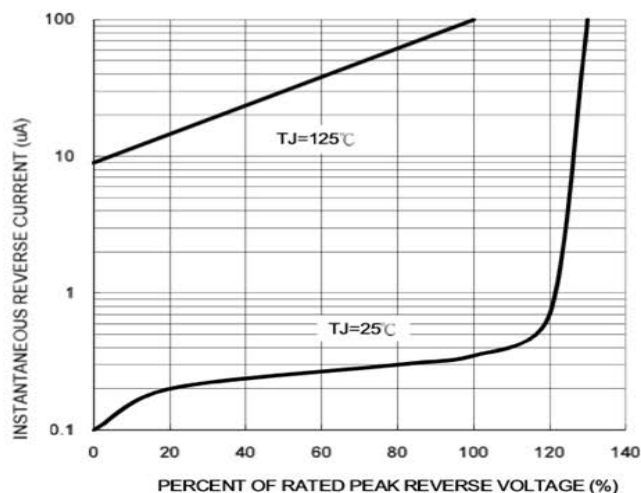


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

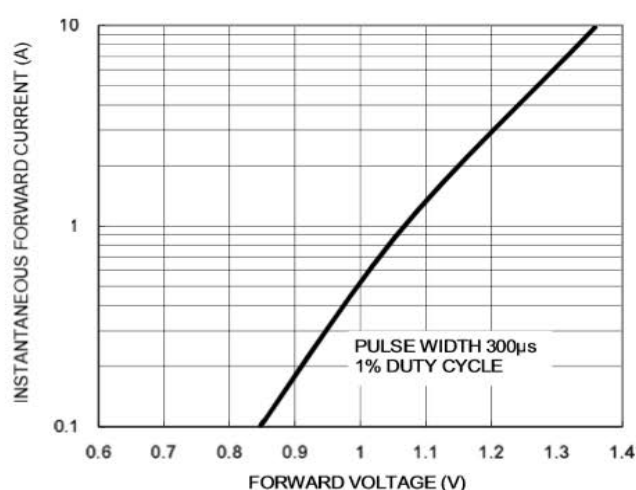
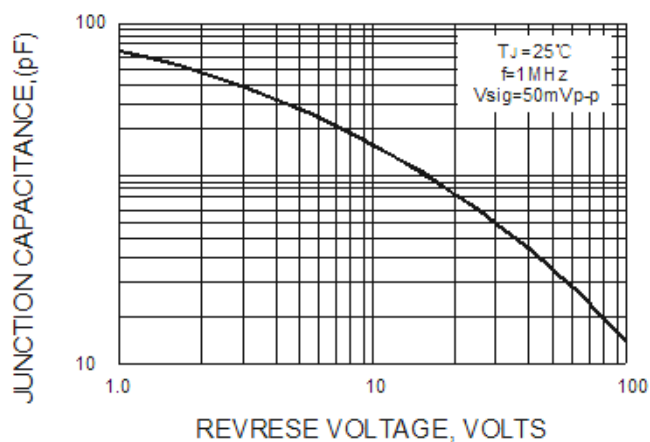
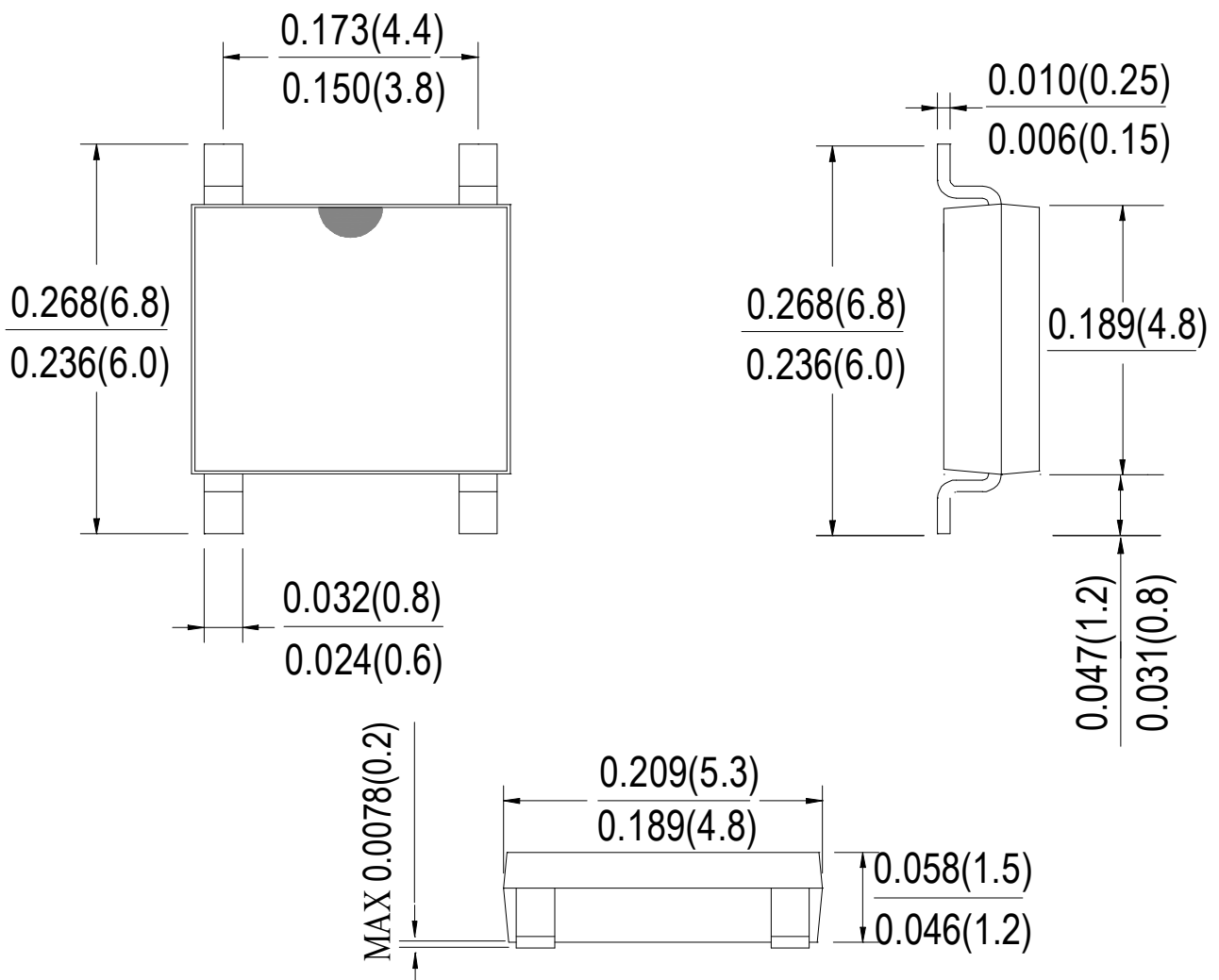


FIG.5-TYPICAL JUNCTION CAPACITANCE



Outline Drawing

ABS



Dimensions in inches and (millimeters)

Rev.B

Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 5 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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