

## Surface Mount Glass Passivated Bridge Rectifier

**Voltage**

**1000 V**

**Current**

**1A**

### Features

- Glass passivated chip junction
- Ideally suited for automatic assembly
- Save space on printed circuit boards
- Ultra thin profile package for space constrained utilization
- Low forward voltage drop
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### Mechanical Data

- Case : ABS Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0031 ounces, 0.088 grams

### Application

- Quick Charger (<20W)
- General power adapter (<30W)
- In-door Led lighting, Bulb/ PAR lighting
- Netcom power (<35W)
- Smart speaker adapter( <20W)

ABS



**Maximum Ratings and Thermal Characteristics** ( $T_A = 25\text{ }^{\circ}\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1000	V
Maximum RMS Voltage	$V_{RMS}$	700	V
Maximum DC Blocking Voltage	$V_{DC}$	1000	V
Maximum Average Forward Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^{\circ}\text{C}$ @ $T_A = 125\text{ }^{\circ}\text{C}$ $I_{FSM}$	35 28	A
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25\text{ }^{\circ}\text{C}$ @ $T_A = 125\text{ }^{\circ}\text{C}$ $I_{FSM}$	70 56	A
$I^2 t$ rating for fusing ( $t = 8.3\text{ms}$ )	$I^2 t$	5.08	$\text{A}^2\text{S}$
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4\text{ V}$ (Note 1)	$C_J$	13	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	33	$^{\circ}\text{C/W}$
Operating Junction Temperature Range	$T_J$	-55~150	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-55~150	$^{\circ}\text{C}$

**Electrical Characteristics** ( $T_A = 25\text{ }^{\circ}\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 1\text{ A}$ , $T_J = 25\text{ }^{\circ}\text{C}$	-	-	1.1	V
Reverse Current	$I_R$	$V_R = 1000\text{ V}$ , $T_J = 25\text{ }^{\circ}\text{C}$	-	-	5	$\mu\text{A}$
		$V_R = 1000\text{ V}$ , $T_J = 125\text{ }^{\circ}\text{C}$	-	-	100	

NOTES :

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 100x100x1.6mm copper pad area.

TYPICAL CHARACTERISTIC CURVES

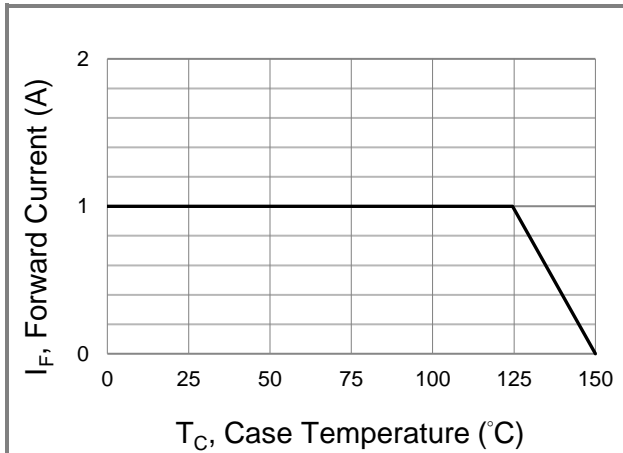


Fig.1 Forward Current Derating Curve

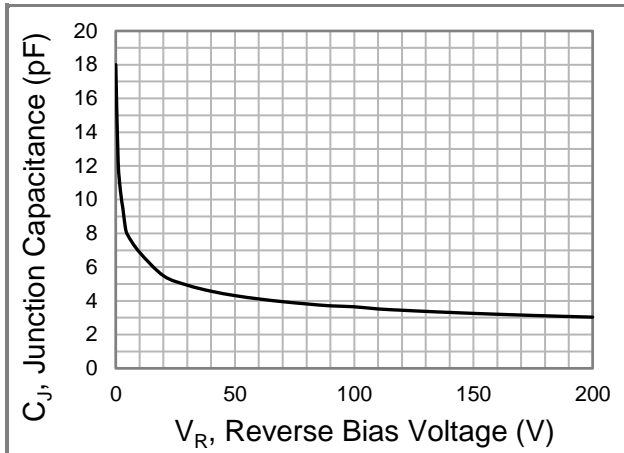


Fig.2 Typical Junction Capacitance

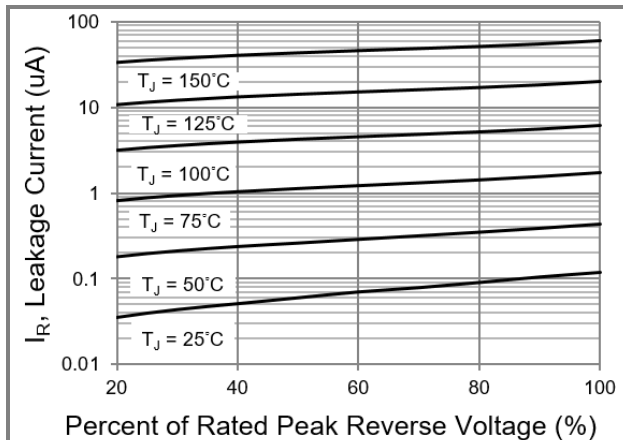


Fig.3 Typical Reverse Characteristics

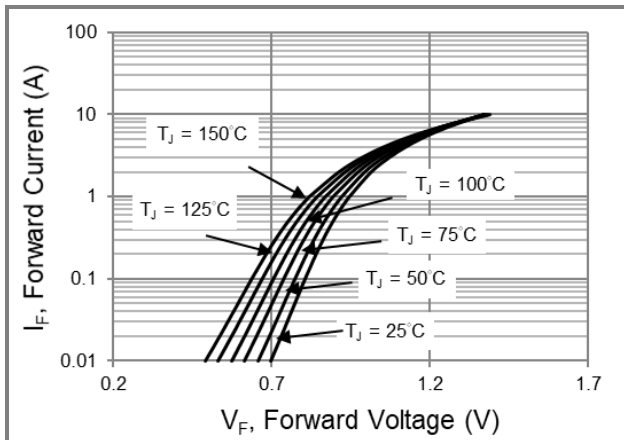
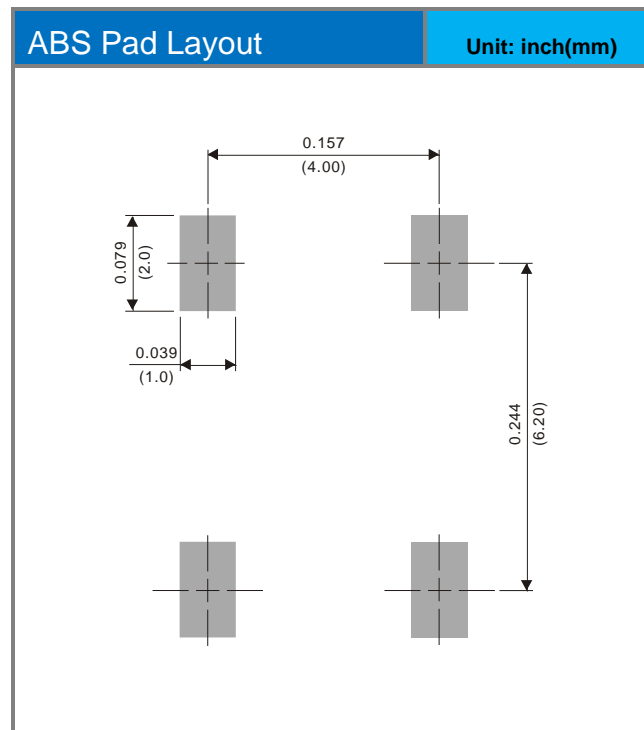
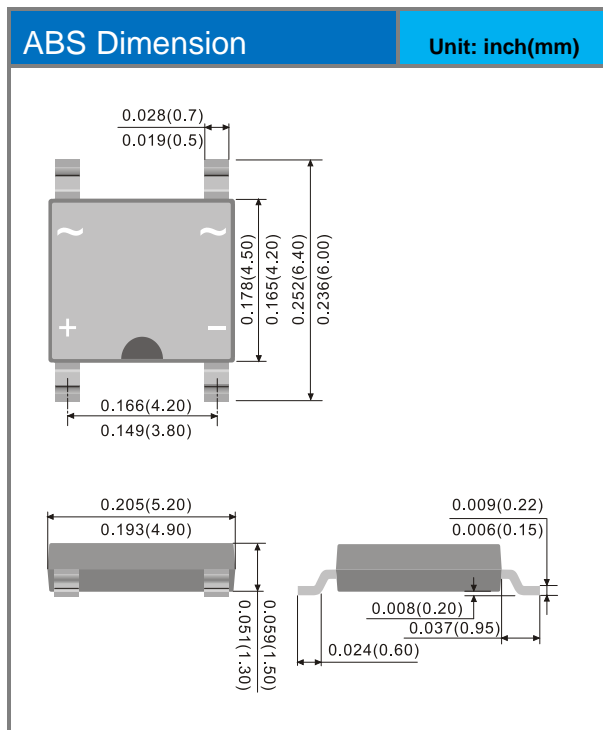


Fig.4 Typical Forward Characteristics

## Product and Packing Information

Part No.	Package Type	Packing Type	Marking
ABS1M	ABS	4K pcs / 13" reel	ABS1M

## Packaging Information & Mounting Pad Layout



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