

## Surface Mount Glass Passivated Bridge Rectifier

**Voltage** **1000 V**

**Current** **2A**

### Features

- Glass passivated chip junction
- Ideally suited for automatic assembly
- High Surge Current Capability
- Designed for Surface Mount Application
- 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

**ABS**



### Application

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

**Maximum Ratings and Thermal Characteristics** ( $T_A = 25^\circ\text{C}$  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	$I_{F(AV)}$	2	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$ @ $T_A = 125^\circ\text{C}$	$I_{FSM}$	70 56
Peak Forward Surge Current : 1.0 ms Single Half Sine-Wave Superimposed On Rated Load	@ $T_A = 25^\circ\text{C}$ @ $T_A = 125^\circ\text{C}$	$I_{FSM}$	140 112
$I^2 t$ rating for fusing ( $t = 8.3\text{ms}$ )	$I^2 t$	20.3	$\text{A}^2\text{s}$
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4\text{V}$	$C_J$	25	pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	60	$^\circ\text{C}/\text{W}$
(Note 2)	$R_{\theta JC}$	16	
Operating Junction Temperature Range	$T_J$	-55~150	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55~150	$^\circ\text{C}$

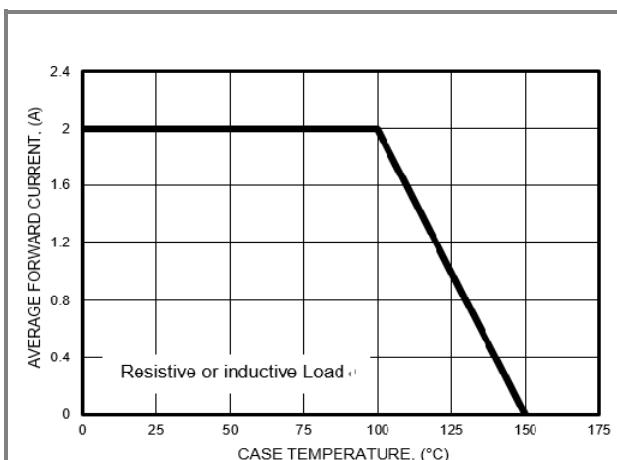
**Electrical Characteristics** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	$V_F$	$I_F = 2\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.1	V
Reverse Current	$I_R$	$V_R = 1000\text{ V}, T_J = 25^\circ\text{C}$	-	-	5	$\mu\text{A}$
		$V_R = 1000\text{ V}, T_J = 125^\circ\text{C}$	-	-	100	

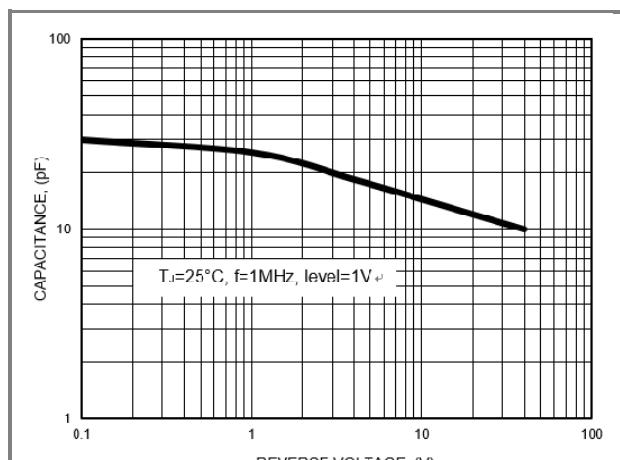
NOTES :

1. Mounted on a FR4 PCB standard pad
2. Mounted on glass epoxy PC board with 4x1.5x1.5(3.81x3.81 cm) copper pad area

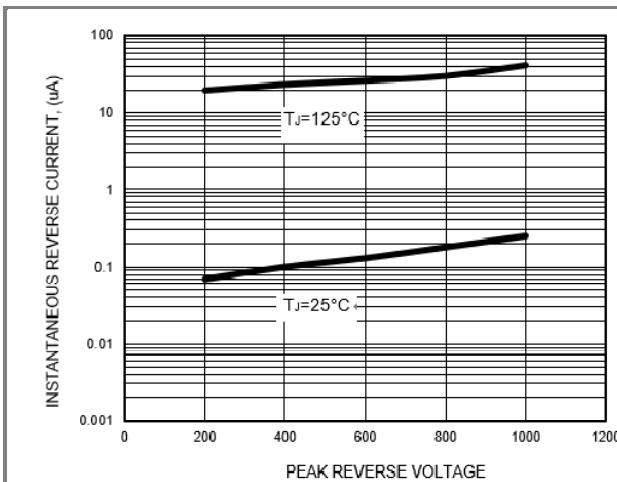
**TYPICAL CHARACTERISTIC CURVES**



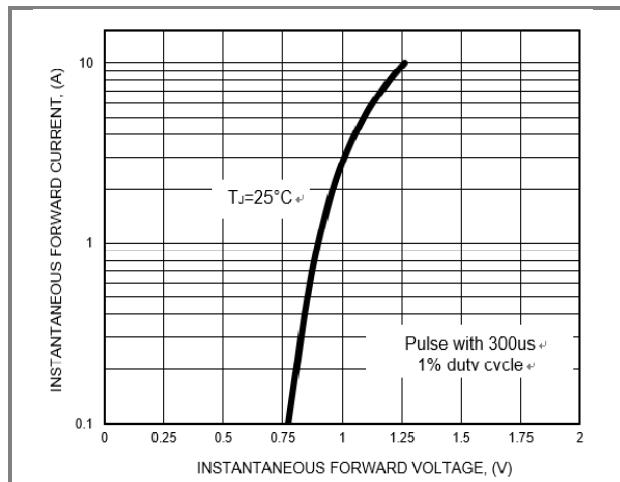
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

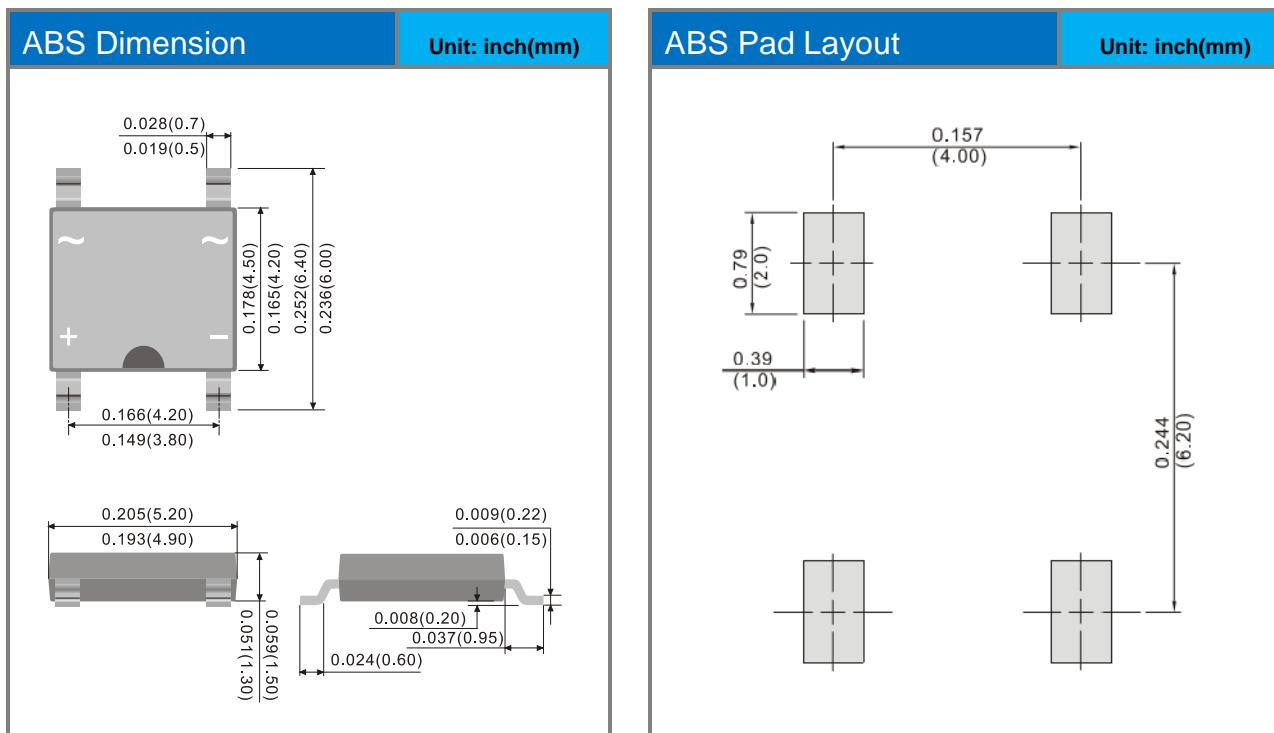


**Fig.4 Typical Forward Characteristics**

**Part No. Packing Code Version**

Part No. Packing Code	Package Type	Packing Type	Marking
ABS2MS_R2_00101	ABS	4K pcs / 13" reel	ABS2MS

**Packaging Information & Mounting Pad Layout**



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