



SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- ◆ Glass Passivated Chip Junction
- ◆ Reverse Voltage - 200 to 1000 V
- ◆ Forward Current - 1 A
- ◆ High surge current capability
- ◆ Designed for Surface Mount Application

Mechanical Data

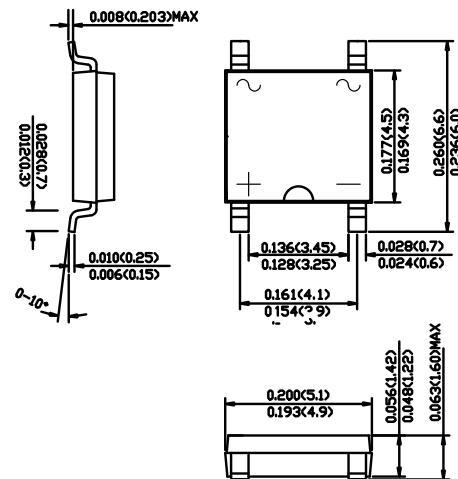
Case : JEDEC ABS Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.0031 ounce, 0.098 grams



Dimensions in inches and (millimeters)

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%.

Parameter	SYMBOLS	ABS2	ABS4	ABS6	ABS8	ABS10	UNITS
		MDD ABS2	MDD ABS4	MDD ABS6	MDD ABS8	MDD ABS10	
Marking Code							
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
Average Rectified Output Current at T _c = 125 °C	I _{F(AV)}			1.0			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}			35			A
Maximum instantaneous forward voltage drop per leg at 1A	V _F			1.1			V
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C T _A =100°C T _A =125°C	I _R		5 50 100			uA
Typical thermal resistance (Note2)	R _{θJA} R _{θJC}			72 20			°C/W
Typical Junction capacitance (Note1)	C _J			13			pF
Operating and storage temperature range	T _{J,T_{STG}}			-55 to +150			°C

NOTES:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.

2.Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Ratings And Characteristic Curves

Fig.1 Average Rectified Output Current Derating Curve

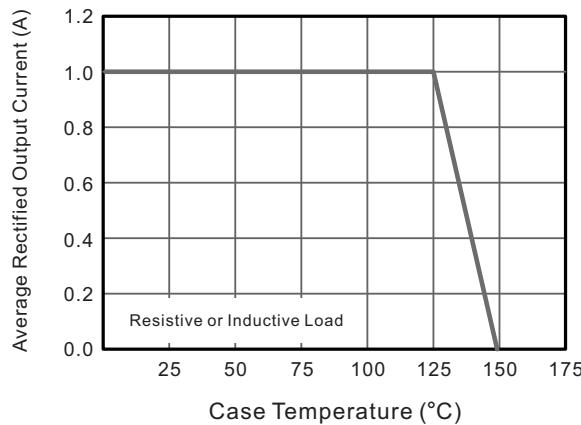


Fig.2 Typical Reverse Characteristics

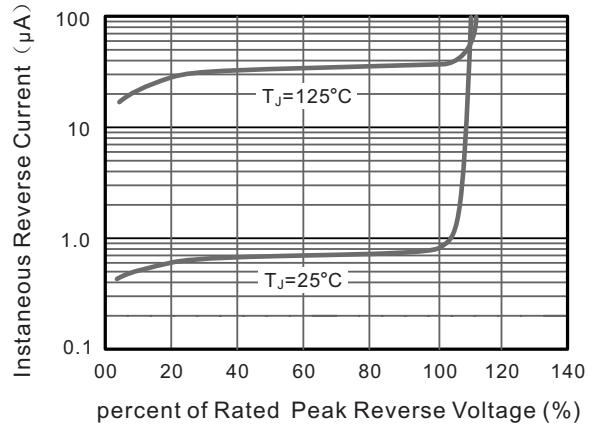


Fig.3 Typical Instantaneous Forward Characteristics

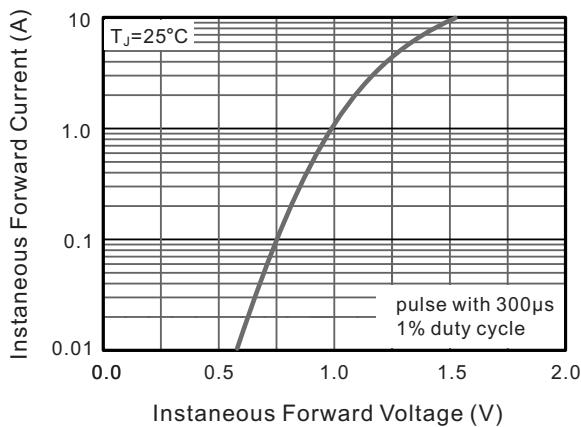


Fig.4 Typical Junction Capacitance

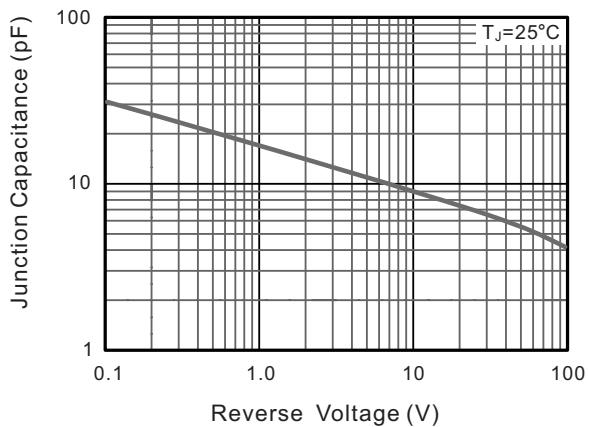
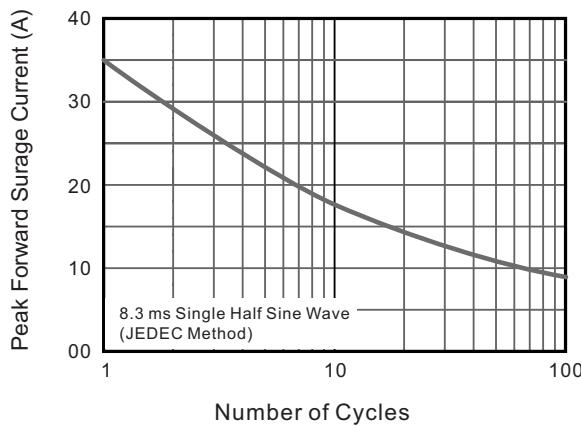


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.