ABS2 THRU ABS10

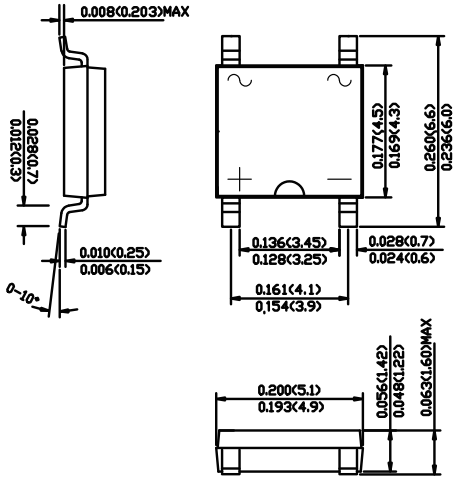
Voltage Range - 200 to 1000 V olts Current - 1.0 Ampere

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

ABS

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



Dimensions in inches and (millimeters)

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

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss 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
Marking Code		MDD ABS2	MDD ABS4	MDD ABS6	MDD ABS8	MDD ABS10	
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℃ T_A=100℃ T_A=125℃	I_R	5 50 100					uA
Typical thermal resistance （Note2）	$R\theta_{JA}$ $R\theta_{JC}$	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

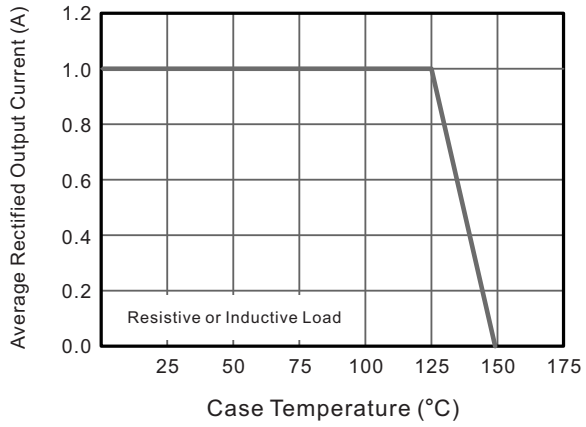


Fig.2 Typical Reverse Characteristics

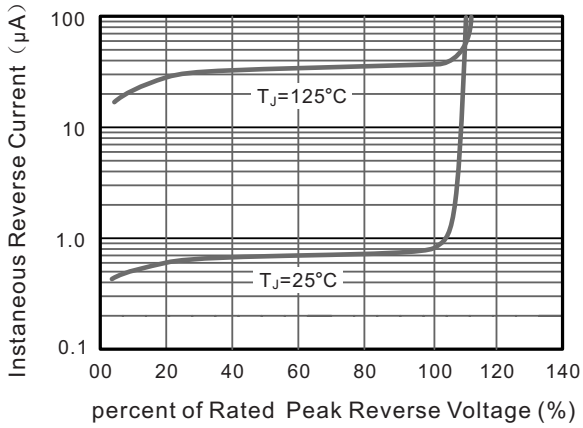


Fig.3 Typical Instaneous Forward Characteristics

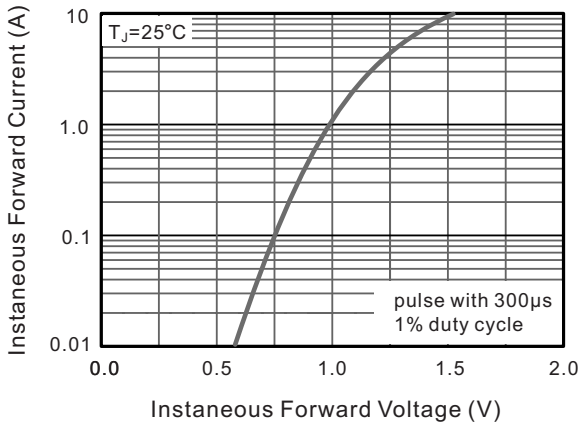


Fig.4 Typical Junction Capacitance

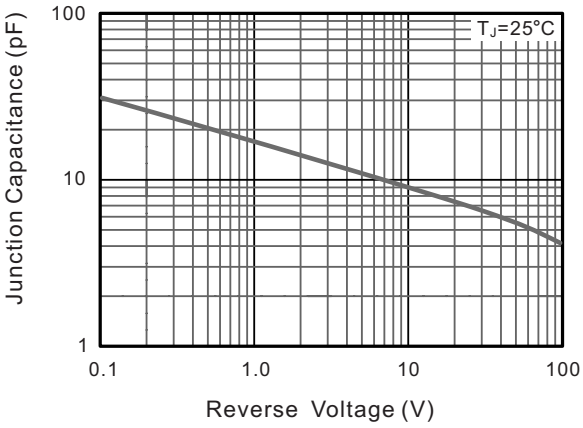
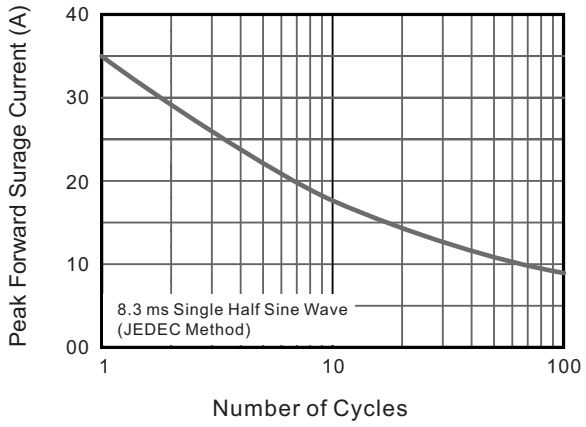


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.