

ABS22 THRU ABS210
SINGLE PHASE 2.0A MP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

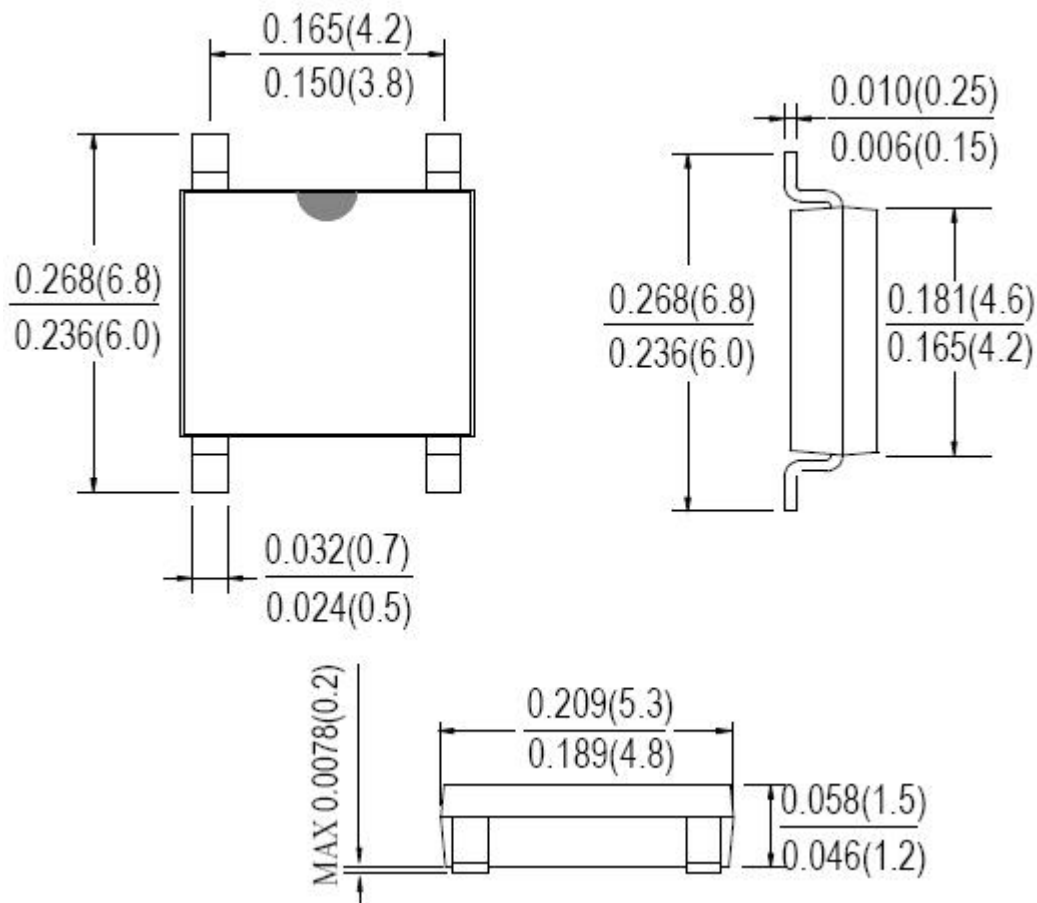
Features:

- Glass passivated die construction
- Low forward voltage drop
- High current capability
- High surge current capability
- Designed for surface mount application
- Plastic material-UL flammability 94V-0

Mechanical Data:

- Case: SOPA-4, Molded plastic ABS
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any
- Marking: Type Number

Mechanical Dimensions: In Inches/mm



ABS

Maximum Ratings and Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Maximum Ratings:

Type Number	Symbol	ABS22	ABS24	ABS26	ABS28	ABS210	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_{DC}	200	400	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	140	280	420	560	700	V
Average Rectified Output Current @ $T_A = 50^\circ\text{C}$	I_O	2.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80					A

Electrical Characteristics:

Type Number	Symbol	ABS22	ABS24	ABS26	ABS28	ABS210	Unit
Forward Voltage (per element) @ $I_F = 2.0\text{A}$	V_F	1.1					V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_R	5.0 500					μA

Thermal-Mechanical Specifications:

Type Number	Symbol	ABS22	ABS24	ABS26	ABS28	ABS210	Unit
Typical Thermal Resistance (per leg)	$R_{\theta JA}$ $R_{\theta JL}$	62.5 25					$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$

FIG.1 FORWARD CURRENT DERATING CURVE

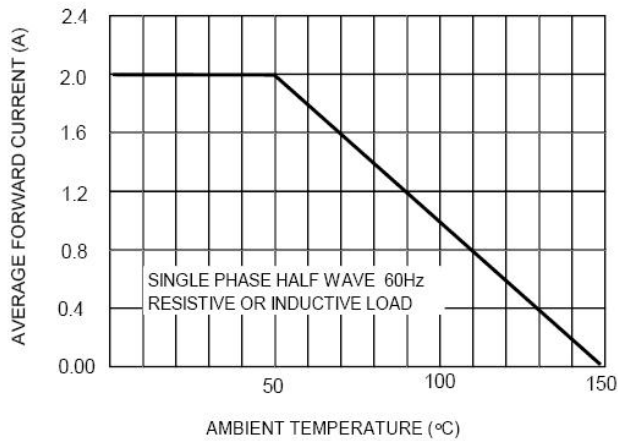


FIG.2 TYPICAL FORWARD CHARACTERISTICS

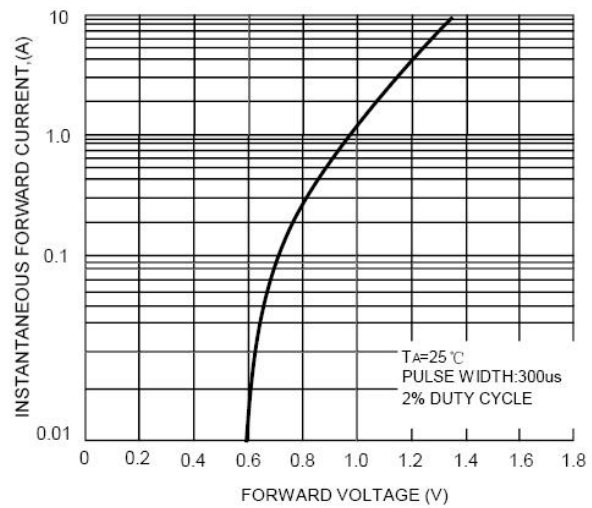


FIG.3 MAXIMUM NON-REPETITIVE SURGE CURRENT

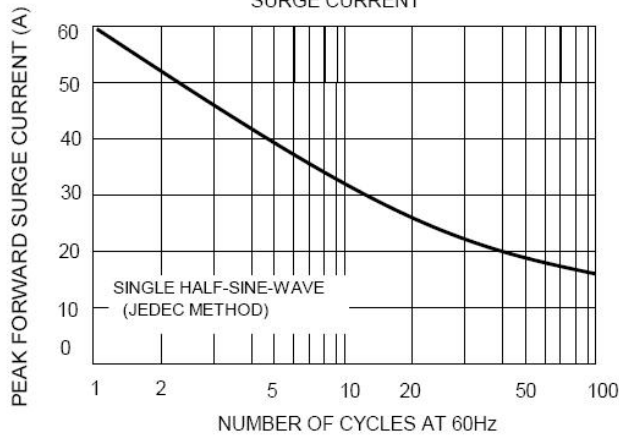
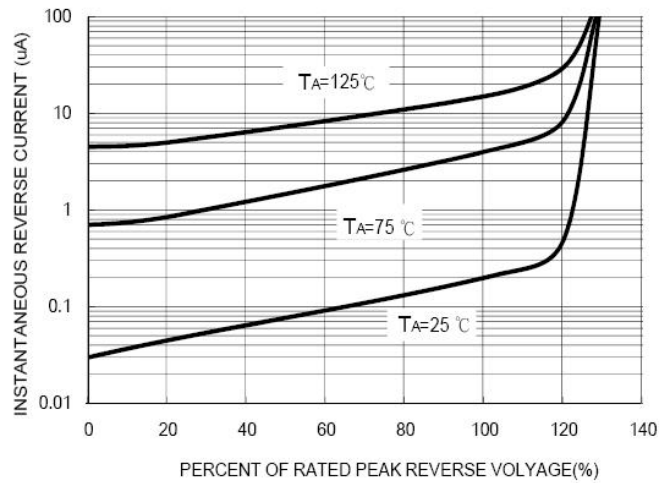


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



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