

ABS2U THRU ABS10U

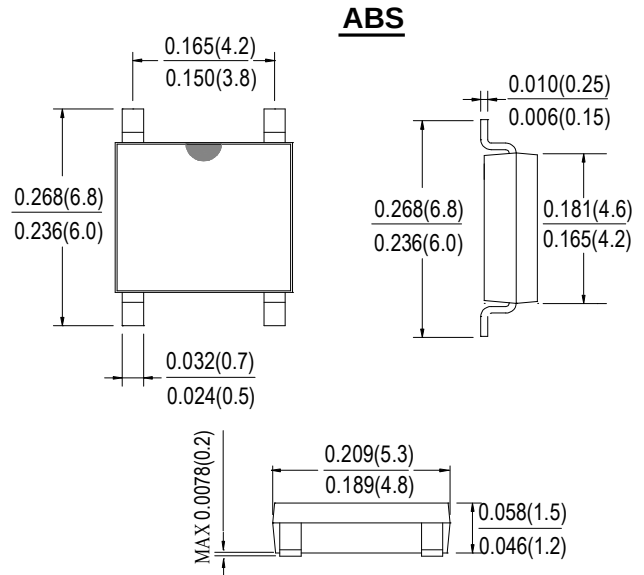
SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

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



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%.

TYPE NUMBER	SYMBOL	ABS2U	ABS4U	ABS6U	ABS8U	ABS10U	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM}	200	400	600	800	1000	V
	V _{RWM}						
	V _{DC}						
RMS Reverse Voltage	V _{RMS}	140	280	420	560	700	V
Average Rectified Output Current @T _A =30℃	I _O	1.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	35					A
Forward Voltage per element @I _F =1.0A	V _{FM}	1.1					V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =125℃	I _R	5.0 500					uA
Typical Thermal Resistance per leg (Note 1)	R _{θJA}	62.5					℃/W
	R _{θJL}	25					
Operating and Storage Temperature Range	T _J , T _{STG}	-55to+150					℃

Note:1 Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

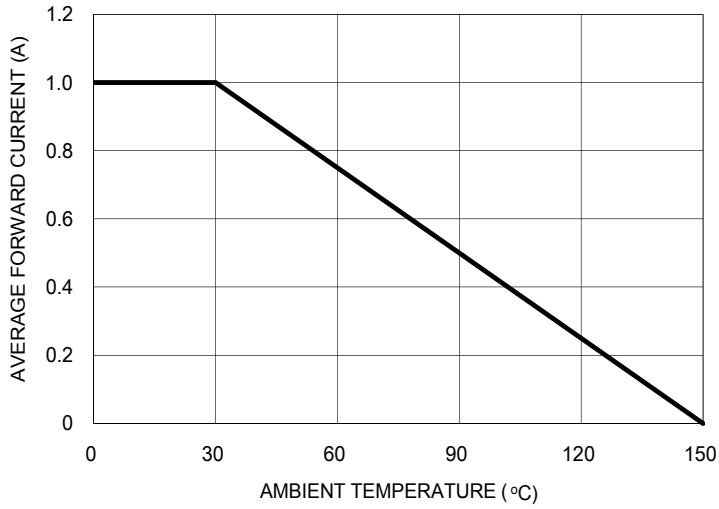


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

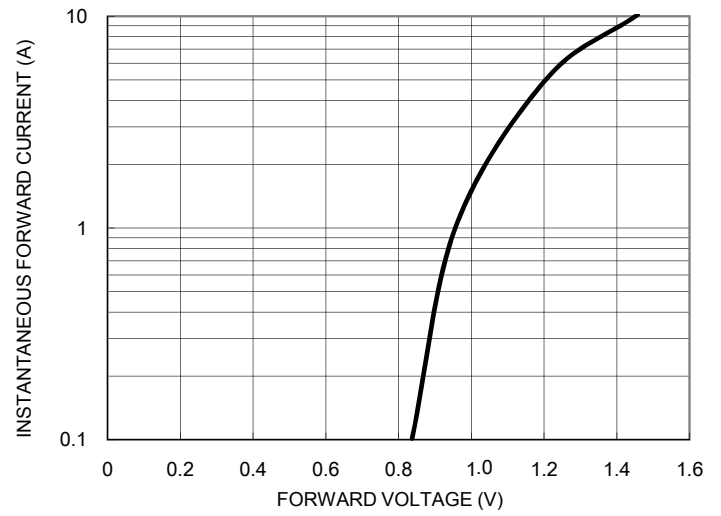


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

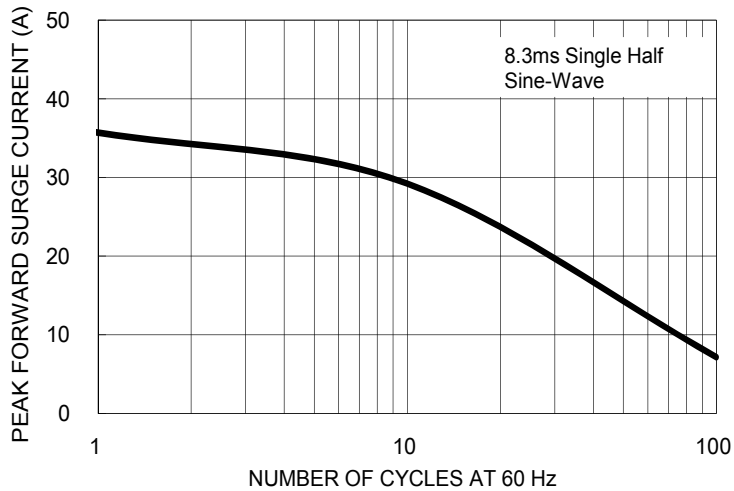


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

