

ABF2U THRU ABF10U
SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

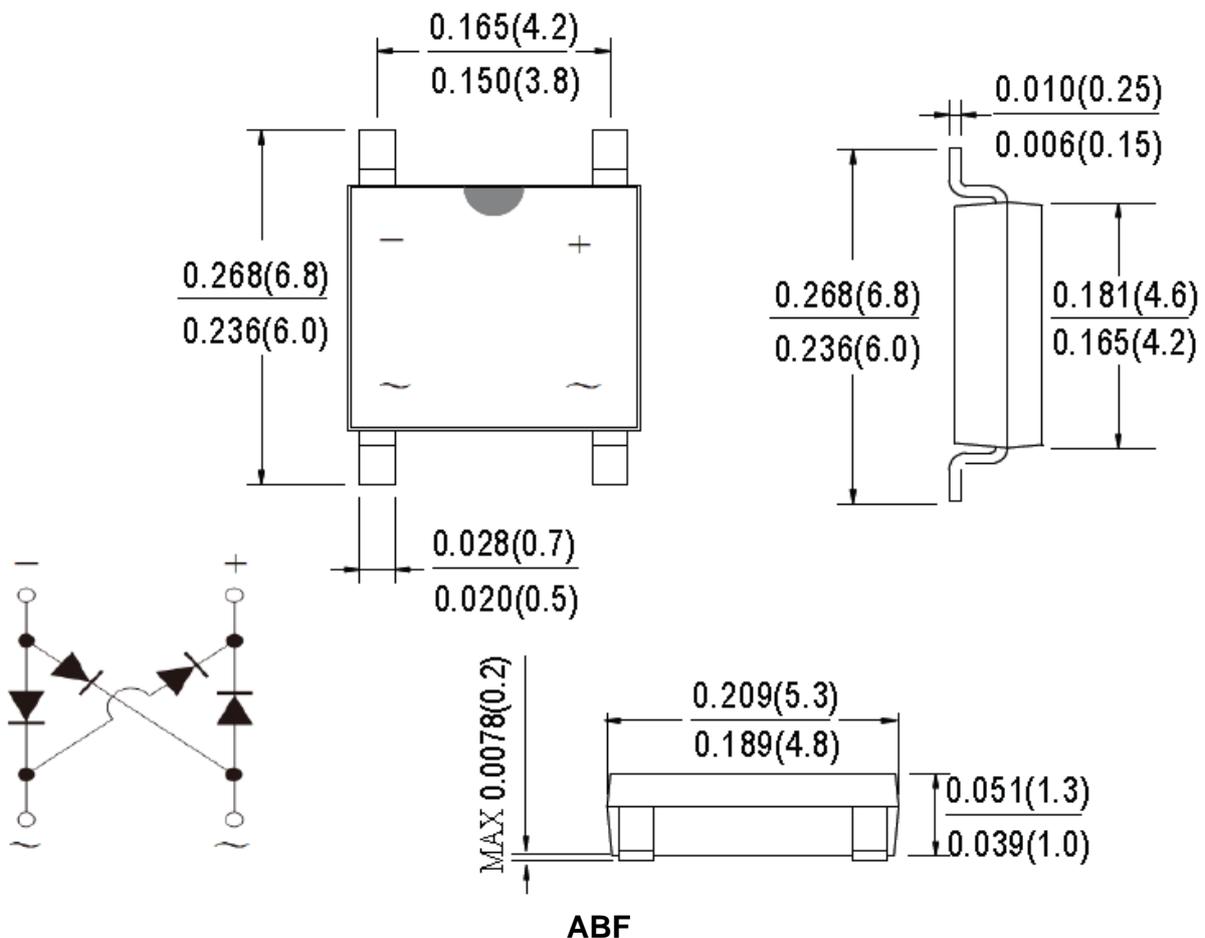
Features:

- 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 ABF
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: Polarity symbols marked on case
- Mounting Position: Any

Mechanical Dimensions: In Inches/mm



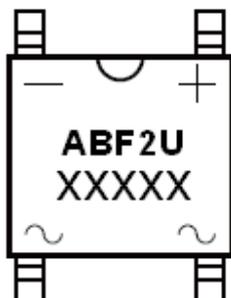


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Technical Data
Data Sheet N1827, Rev. -

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Marking Diagram:



Where XXXXX is YYWWL

ABF2U = Part Name
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin
Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
ABF2U THRU ABF10U	ABF (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.



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 current derate by 20%.

Characteristic	Symbol	ABF2U	ABF4U	ABF6U	ABF8U	ABF10U	Units
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	140	280	420	560	700	
Maximum DC blocking voltage	V_{DC}	200	400	600	800	1000	
Average Rectified Output Current @ $T_C = 100^\circ C$	$I_{F(AV)}$	1.0					V
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	35					A
Rating for fusing ($t < 8.3ms$)	I^2t	5.08					A^2s
Forward voltage per element @ $I_F = 0.5A$ @ $I_F = 1.0A$	V_F	0.95 1.0					V
Maximum DC reverse current at rated DC blocking voltage $T_A = 25^\circ C$ $T_A = 125^\circ C$	I_R	5 200					μA
Typical thermal resistance per leg (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$	62.5 25					$^\circ C/W$
Operating and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ C$

Note: 1. Thermal resistance from junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

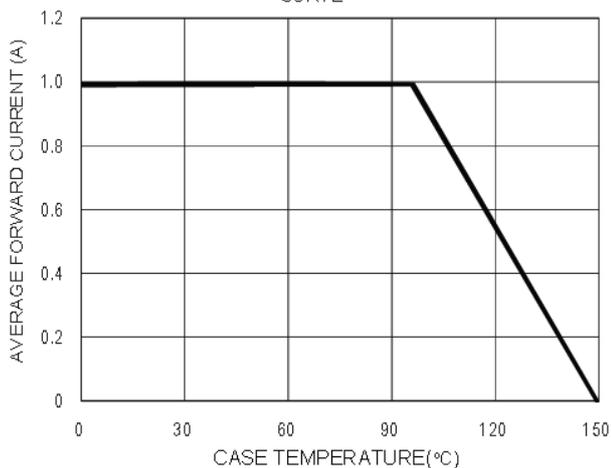


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

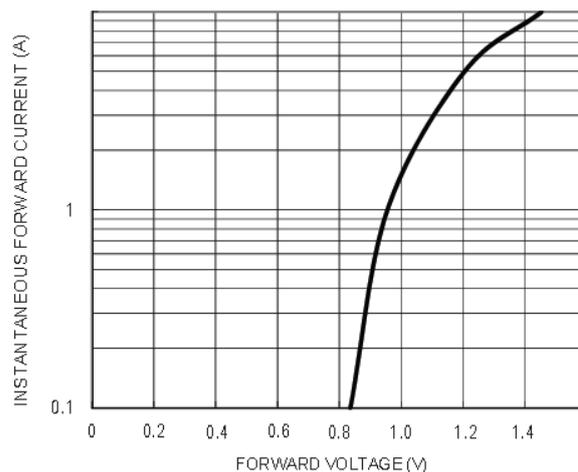


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

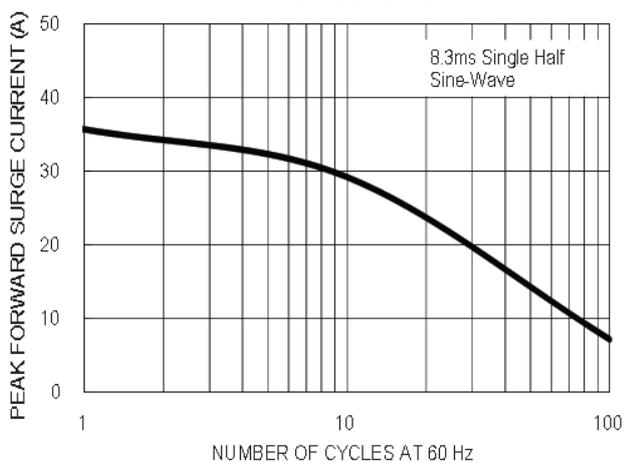
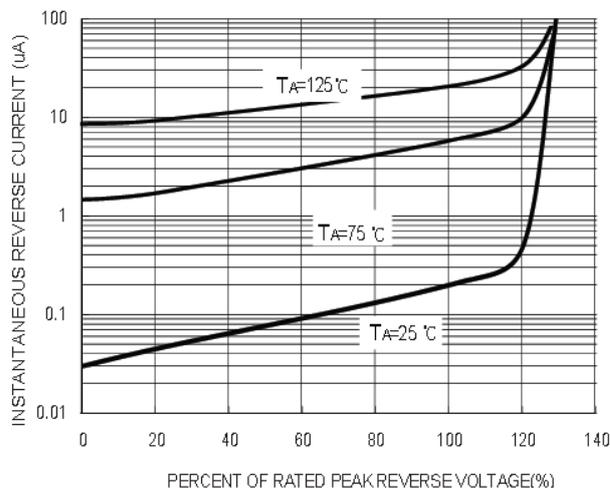


FIG. 4 TYPICAL REVERSE CHARACTERISTICS





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