

ABF2U THRU ABF10U

SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

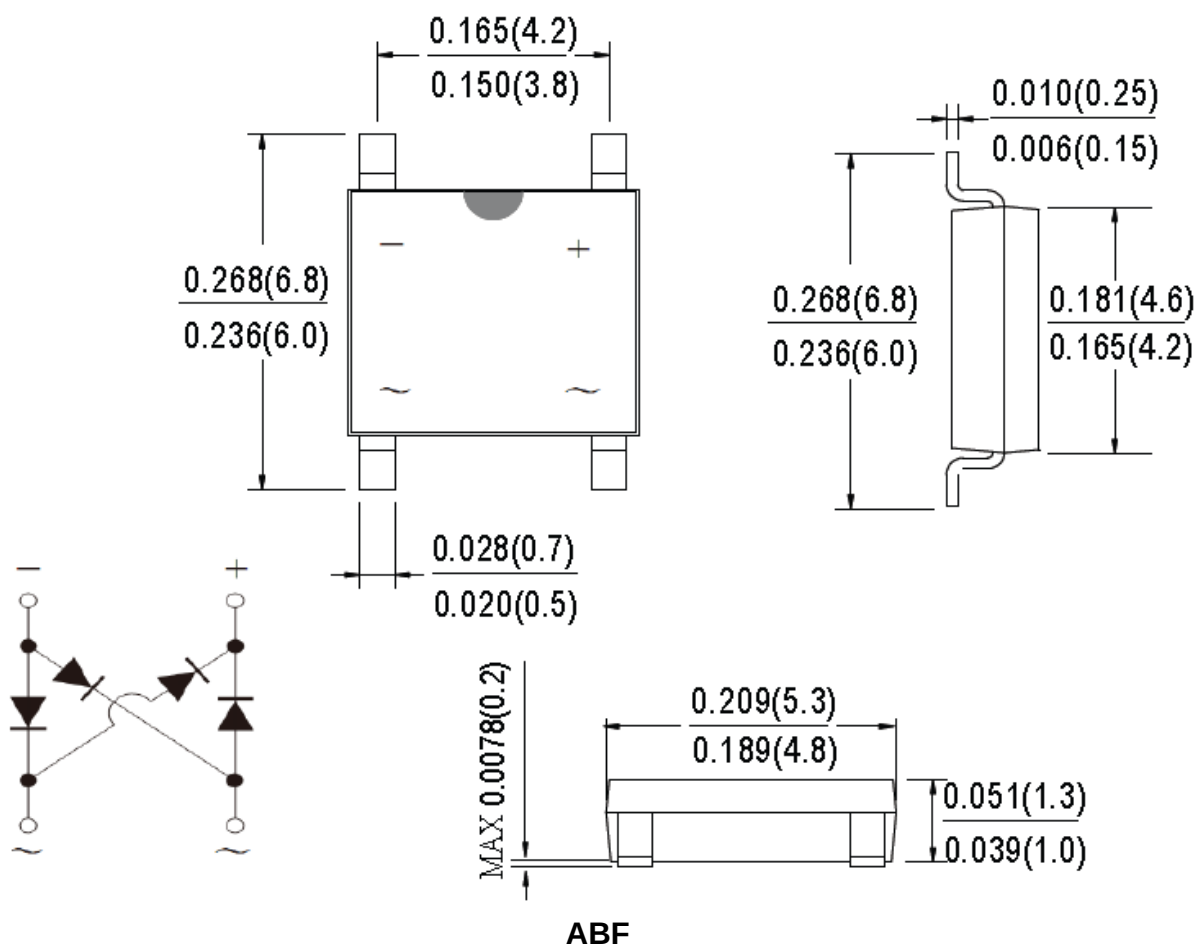
Features:

- 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



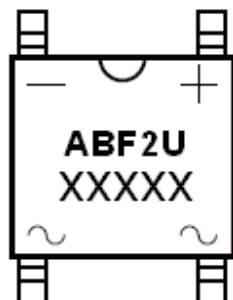


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Technical Data
Data Sheet N1827, Rev. -

Green Products

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.



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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 @ $T_C = 100^\circ\text{C}$	$I_{F(AV)}$	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 ($t < 8.3\text{ms}$)	I^2t	5.08					A^2s
Forward voltage per element @ $I_F = 0.5\text{A}$ @ $I_F = 1.0\text{A}$	V_F	0.95 1.0					V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 125^\circ\text{C}$	I_R	5 200					μA
Typical thermal resistance per leg (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$	62.5 25					$^\circ\text{C/W}$
Operating and storage temperature range	T_J, T_{STG}	-55 to +150					$^\circ\text{C}$

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

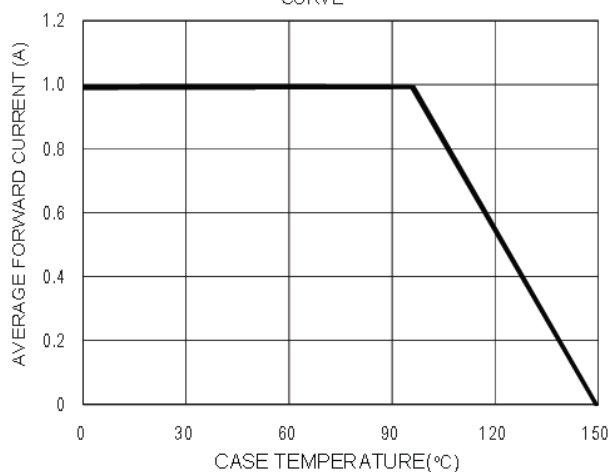


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

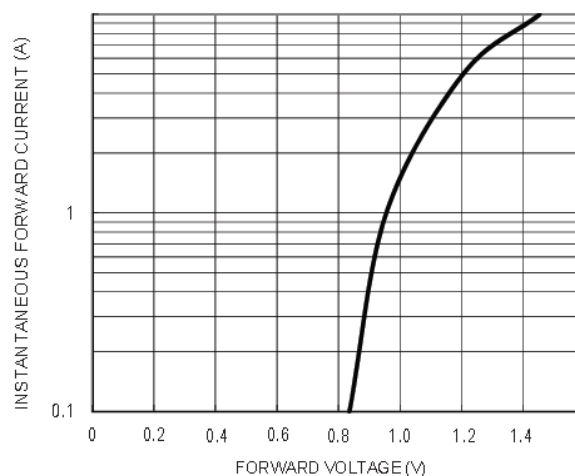


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

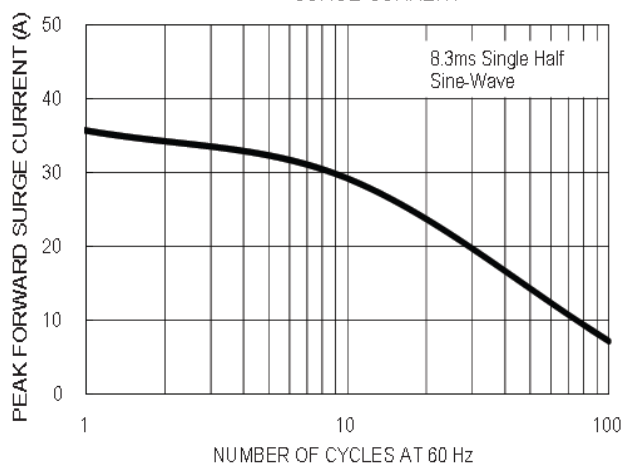
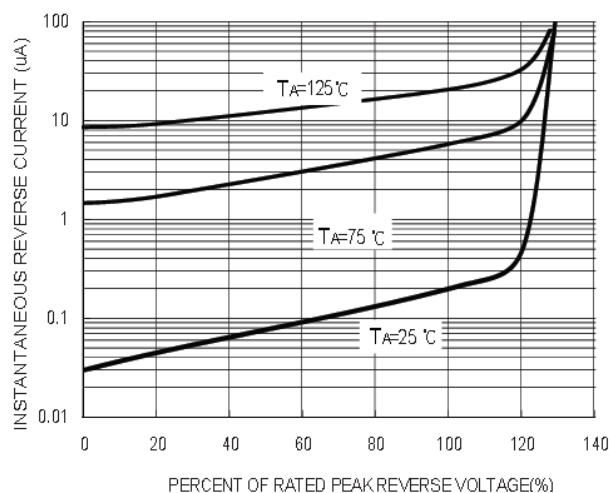


FIG. 4 TYPICAL REVERSE CHARACTERISTICS





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