

ABF22 THRU ABF 210
SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

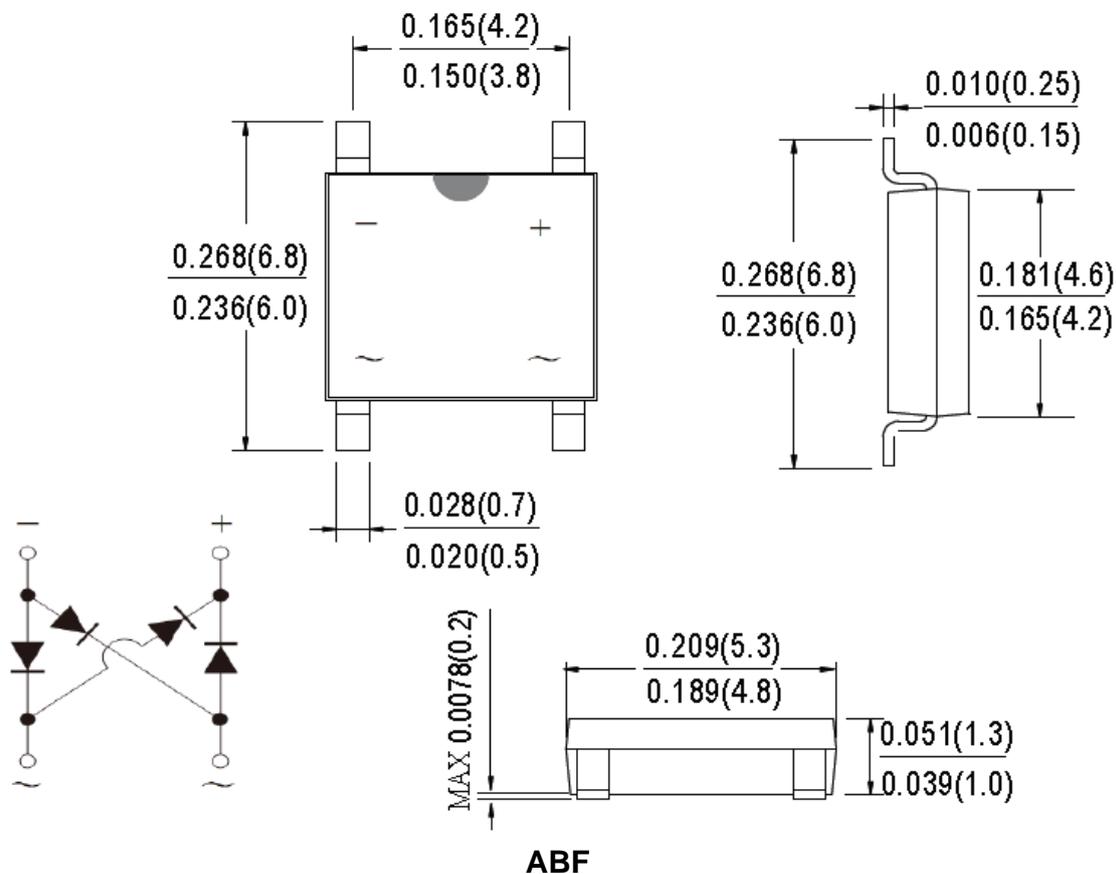
Features:

- 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
- This is a Halogen Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

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





ABF22 THRU ABF210

Technical Data
Data Sheet N1841, Rev. -

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Marking Diagram:



Where XXXXX is YYWWL

ABF22 = Part Name
YY = Year
WW = Week
L = Lot Number

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

Ordering Information:

Device	Package	Shipping
ABF22 THRU ABF210	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, derate current by 20%.

TYPE NUMBER	SYMBOL	ABF22	ABF24	ABF26	ABF28	ABF210	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}						
Working Peak Reverse Voltage	V _{RWM}	200	400	600	800	1000	V
DC Blocking Voltage	V _{DC}						
RMS Reverse Voltage	V _{RMS}	140	280	420	560	700	V
Average Rectified Output Current @T _c =100 °C	I _{F(AV)}	2.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60					A
Rating for fusing (t<8.3ms)	I ² t	14.94					A ² s
Forward Voltage per element @I _F =1.0A @I _F =2.0A	V _{FM}	0.95 1.0					V
Peak Reverse Current @T _A =25°C At Rated DC Blocking Voltage @T _A =125 °C	I _R	5.0 200					uA
Typical Thermal Resistance per leg	R _{θJA}	62.5					°C/W
	R _{θJL}	25					
Operating and Storage Temperature Range	T _J , T _{STG}	-55to+150					°C

FIG.1 FORWARD CURRENT DERATING CURVE

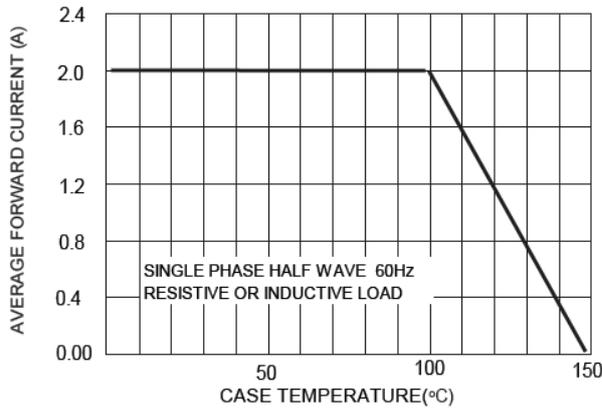


FIG. 2 TYPICAL FORWARD CHARACTERISTIC

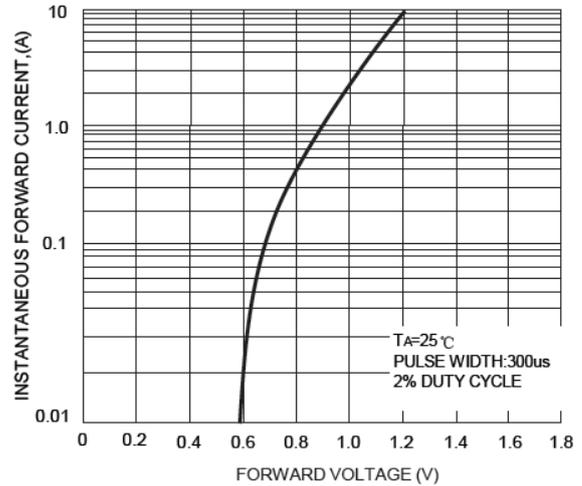


FIG.3 MXIMUM NON-REPETITIVE SURGE CURRENT

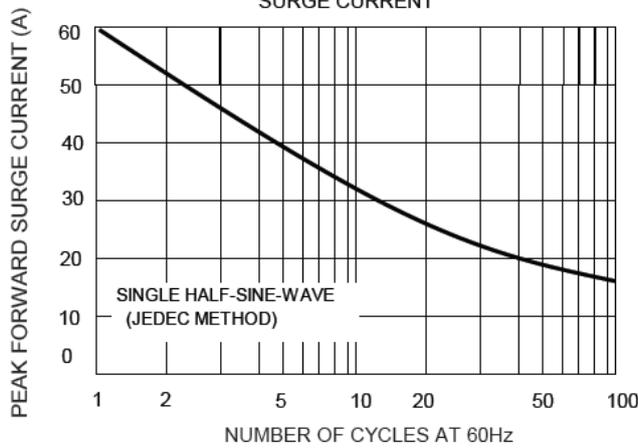
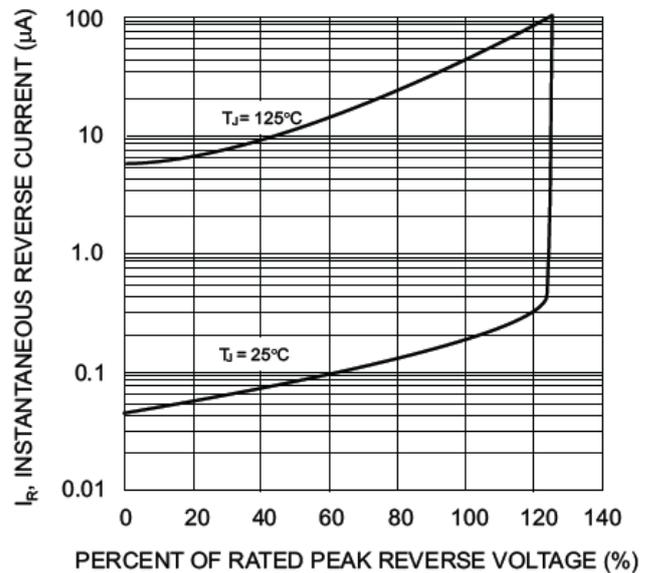


Fig. 4 T typical Reverse Characteristics (per element)





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