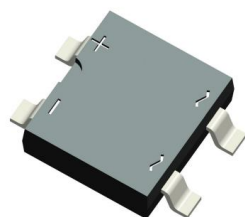


ABF22 THRU ABF 210

SINGLE PHASE 2.0AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

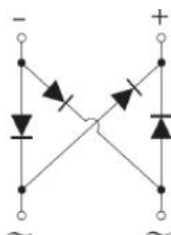


ABF

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

Circuit Diagram



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

Maximum Ratings@T_A=25°C unless otherwise specified

Single Phase half wave 60Hz, resistive or inductive load. For capacitive load current derate by 20%.

Characteristic	Symbol	ABF22	ABF24	ABF26	ABF28	ABF210	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°C	I _{F(AV)}	2.0					V
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	15					A ² s

Electrical Characteristics:

Characteristic	Symbol	ABF22	ABF24	ABF26	ABF28	ABF210	Units
Forward voltage per element @ $I_F = 1.0A$ @ $I_F = 2.0A$	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

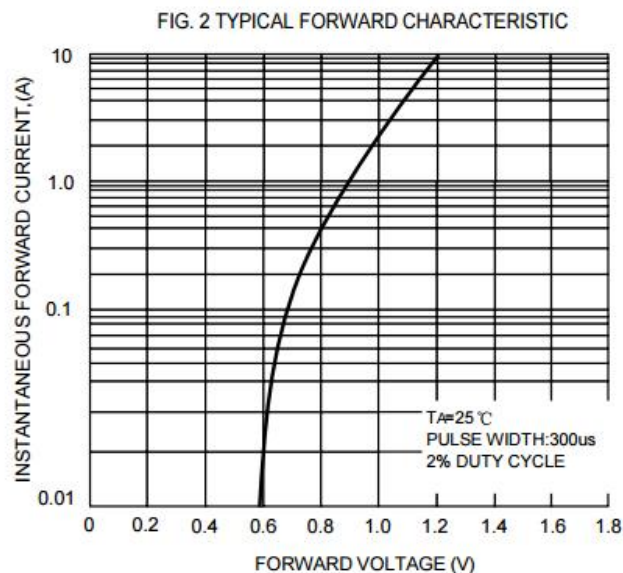
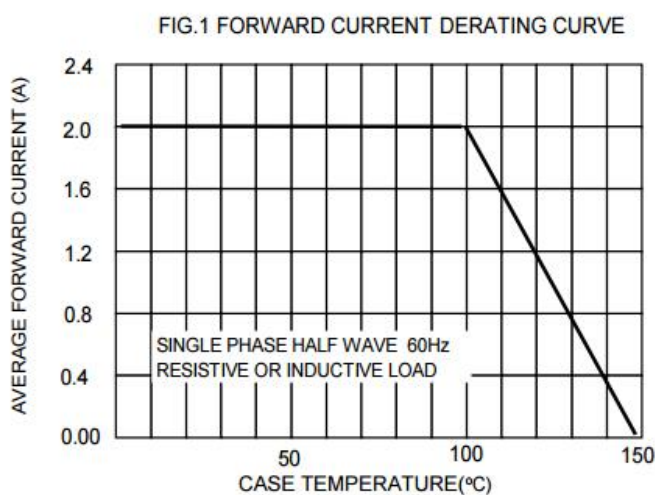
* Pulse width < 300 μs , duty cycle < 2%

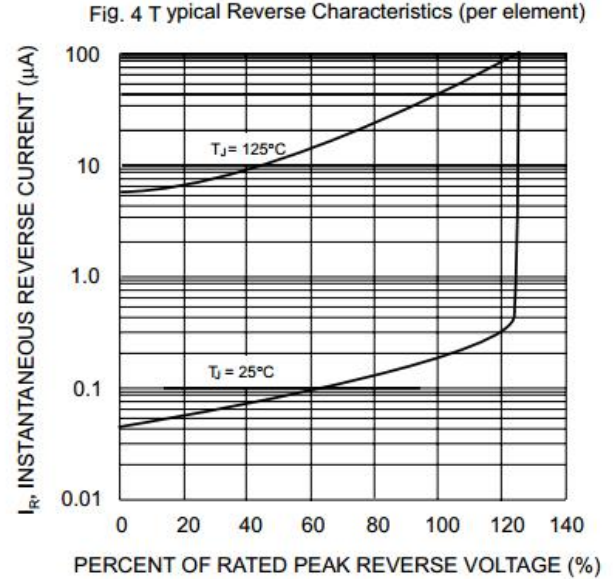
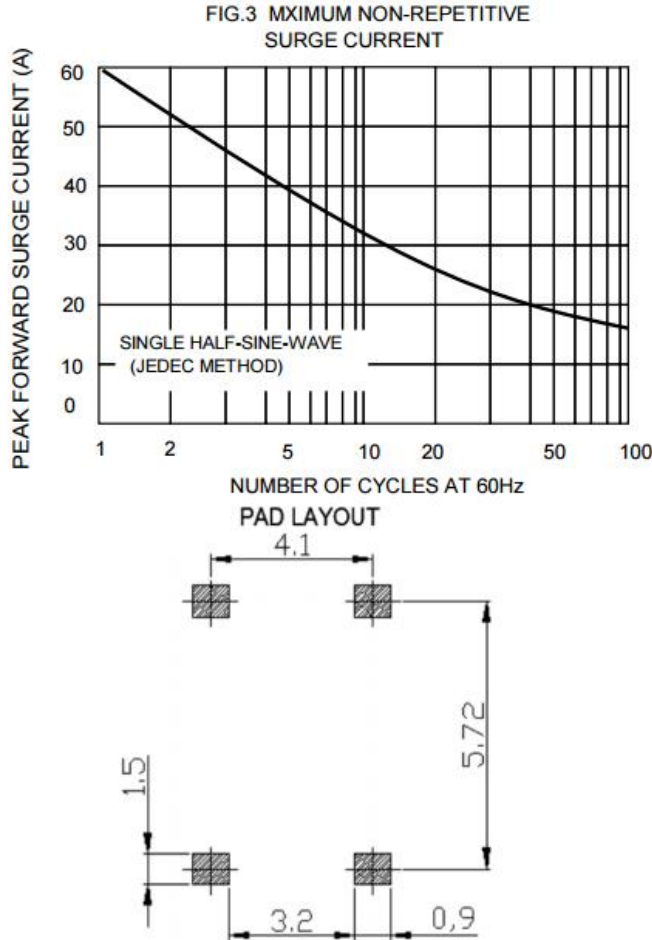
Thermal-Mechanical Specifications:

Characteristic	Symbol	ABF22	ABF24	ABF26	ABF28	ABF210	Units
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.

Ratings and Characteristics Curves





Ordering Information

Device	Package	Plating	Shipping
ABF22 THRU ABF210	ABF	Pure Sn	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

Marking Diagram

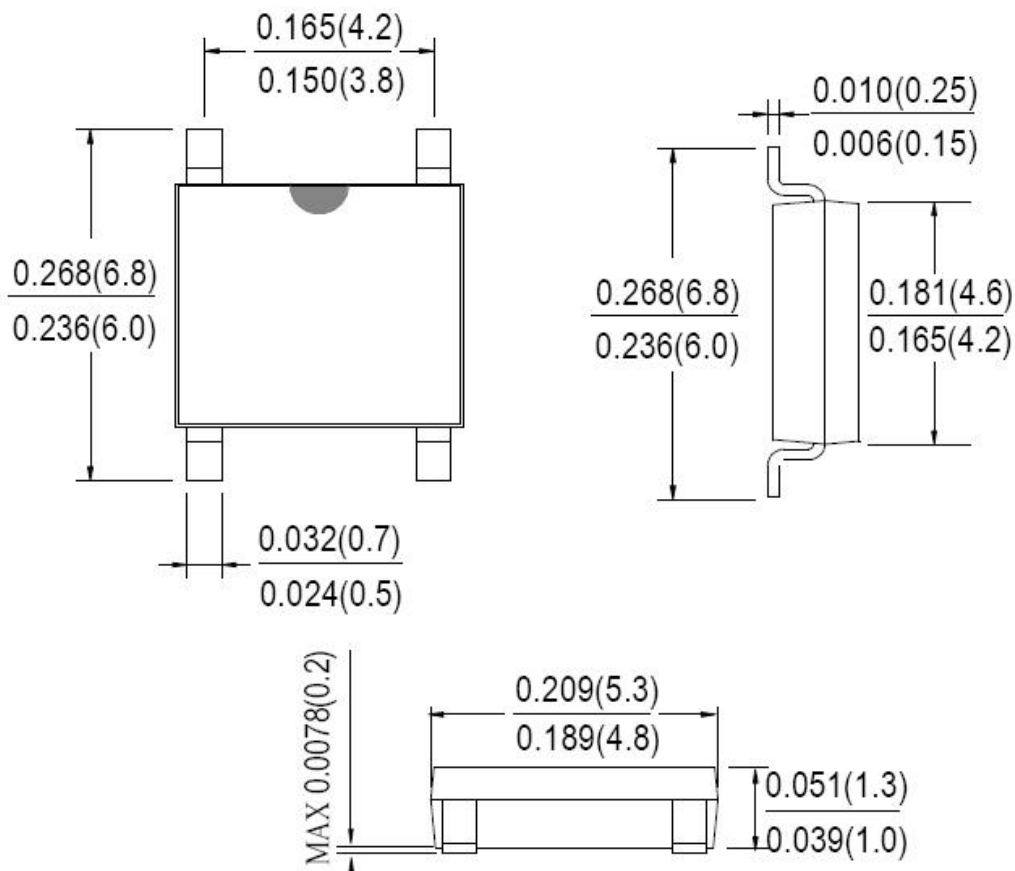


Where XXXXX is YYWWL

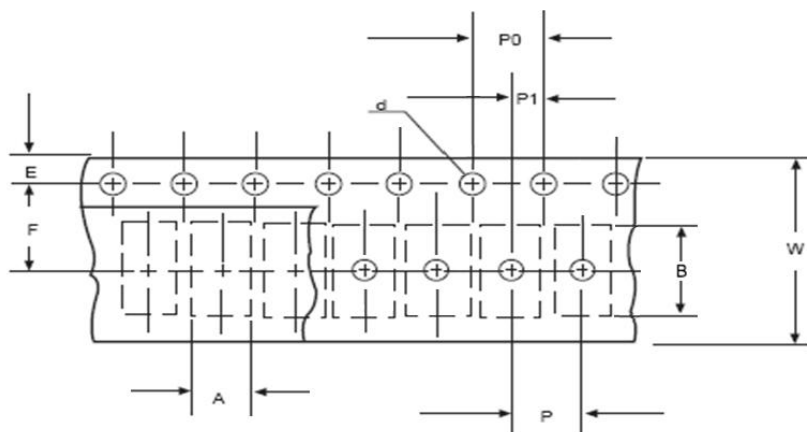
ABF22 = Type Number
YY = Year
WW = Week
L = Lot Number

Cautions: Molding resin
Epoxy resin UL94V-0

Mechanical Dimensions ABF(Inches/Millimeters)



Carrier Tape Specification ABF



SYMBOL	Millimeters	
	Min.	Max.
A	5.00	5.40
B	6.40	6.80
d	1.40	1.60
E	1.40	1.60
F	5.55	5.75
P	3.90	4.10
P0	3.90	4.10
P1	1.90	2.10
W	11.50	12.50

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