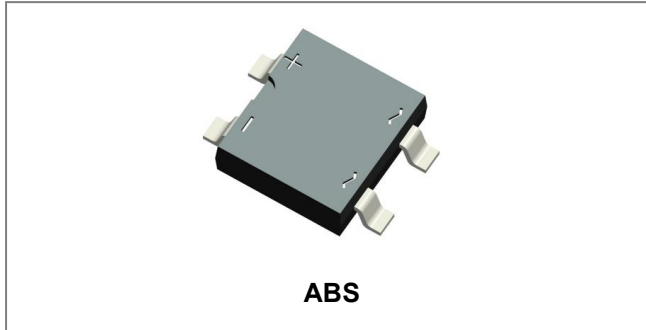


ABS22 THRU ABS210

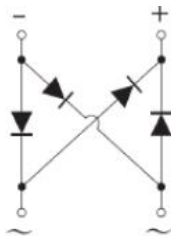
SINGLE PHASE 2.0A MP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER



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 Pb – Free Device
- “-HF” suffix is for 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 ABS
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: as marked on case
- Mounting Position: Any

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Type Number	Symbol	ABS22	ABS24	ABS26	ABS28	ABS210	Unit
ABS22-HF THRU ABS210-HF Marking Code		ABS22H	ABS24H	ABS26H	ABS28H	ABS210H	
Peak Repetitive Reverse Voltage	V _{RRM}	200	400	600	800	1000	V
Working Peak Reverse Voltage	V _{RWM}						
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 _O	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
I ² t Rating for Fusing (t < 8.3ms)	I ² t	15					A ² s

Electrical Characteristics:

Type Number	Symbol	ABS22	ABS24	ABS26	ABS28	ABS210	Unit
ABS22-HF THRU ABS210-HF Marking Code		ABS22H	ABS24H	ABS26H	ABS28H	ABS210H	
Forward Voltage (per element) @ $I_F = 1.0A$ @ $I_F = 2.0A$	V_F			0.95 1.00			V
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R			5.0 200			μA

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

Thermal-Mechanical Specifications:

Type Number	Symbol	ABS22	ABS24	ABS26	ABS28	ABS210	Unit
ABS22-HF THRU ABS210-HF Marking Code		ABS22H	ABS24H	ABS26H	ABS28H	ABS210H	
Typical Thermal Resistance (per leg)	$R_{\theta JA}$ $R_{\theta JL}$			62.5 25			$^\circ C/W$
Operating and Storage Temperature Range	T_J, T_{STG}			-55 to +150			$^\circ C$

Ratings and Characteristics Curves

FIG.1 FORWARD CURRENT DERATING CURVE

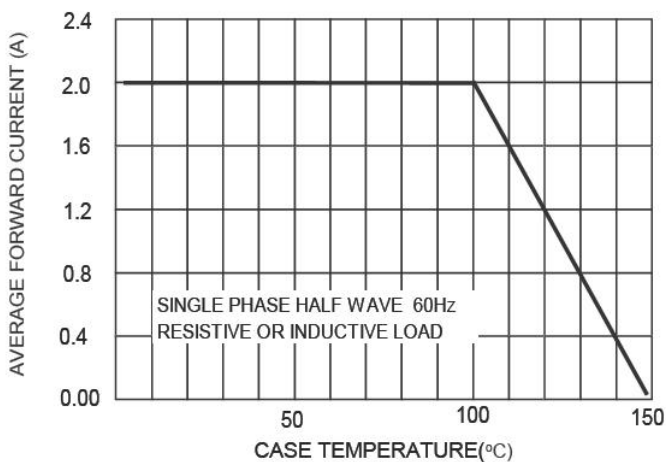
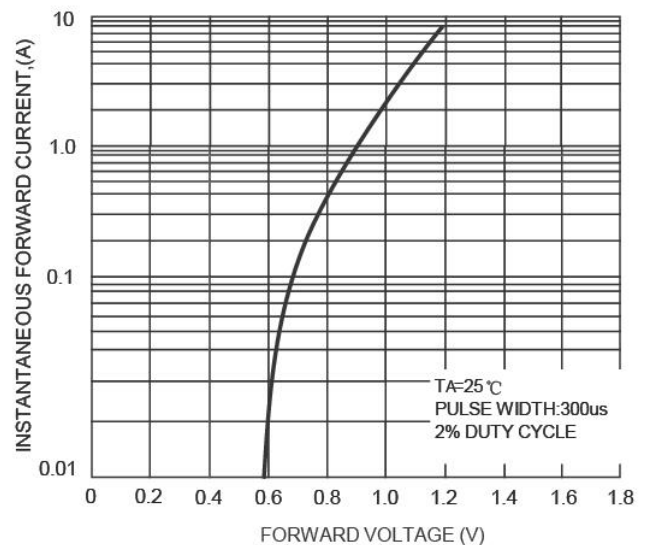


FIG.2 TYPICAL FORWARD CHARACTERISTICS



Technical Data
Data Sheet N1924, Rev. A



FIG.3 MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

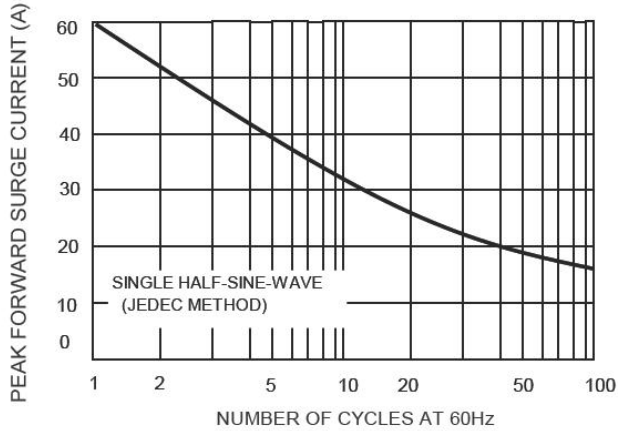
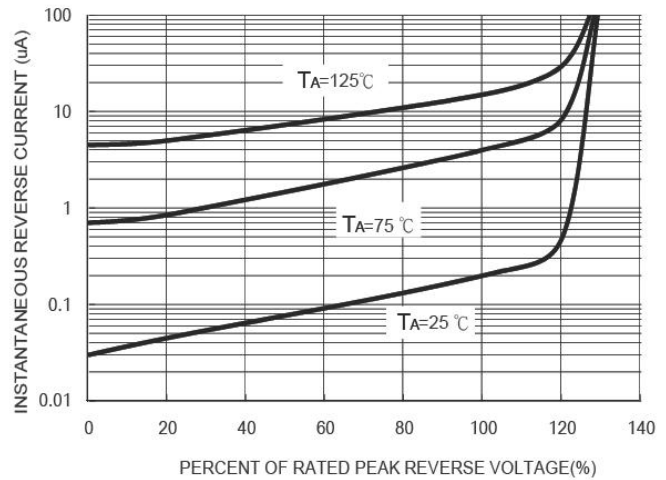
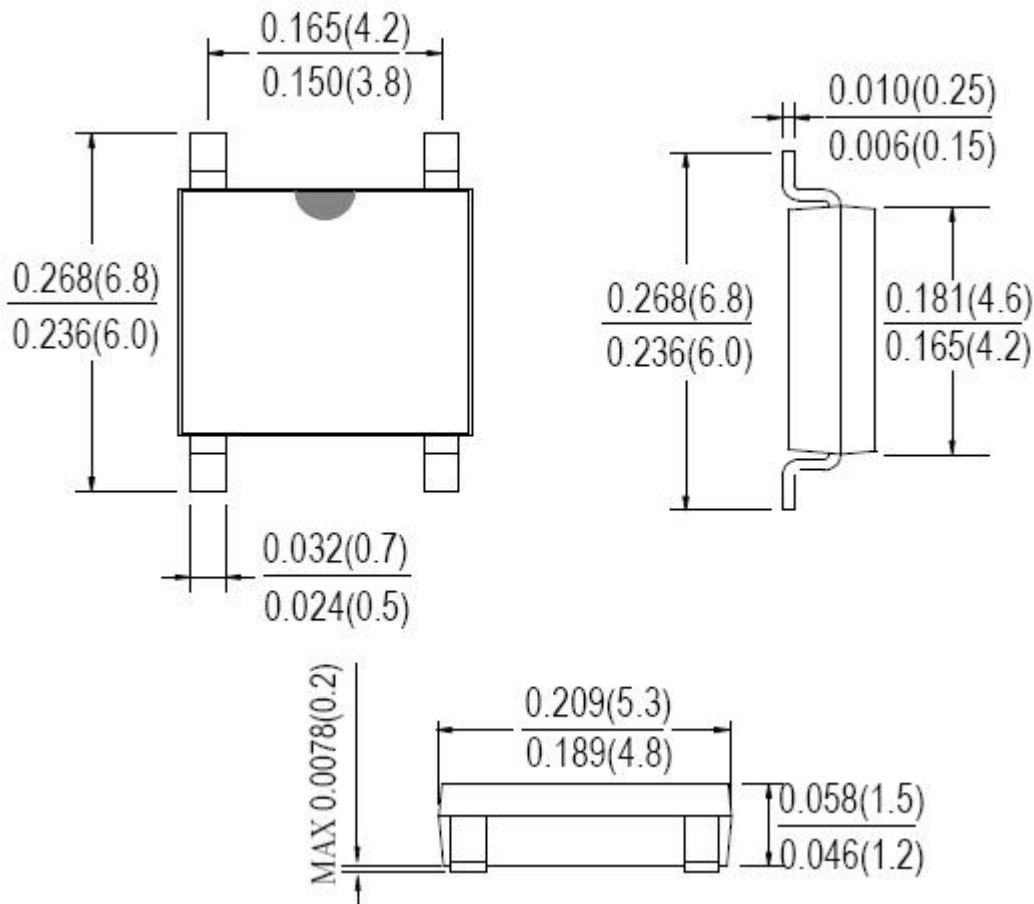


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



Mechanical Dimensions ABS(Inches/Millimeters)

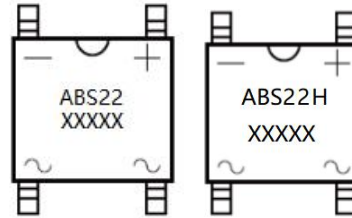


Ordering Information

Device	Package	Plating	Shipping
ABS22 THRU ABS210	ABS	Pure Sn	5000pcs / reel
ABS22TR THRU ABS210TR	ABS	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



ABS22

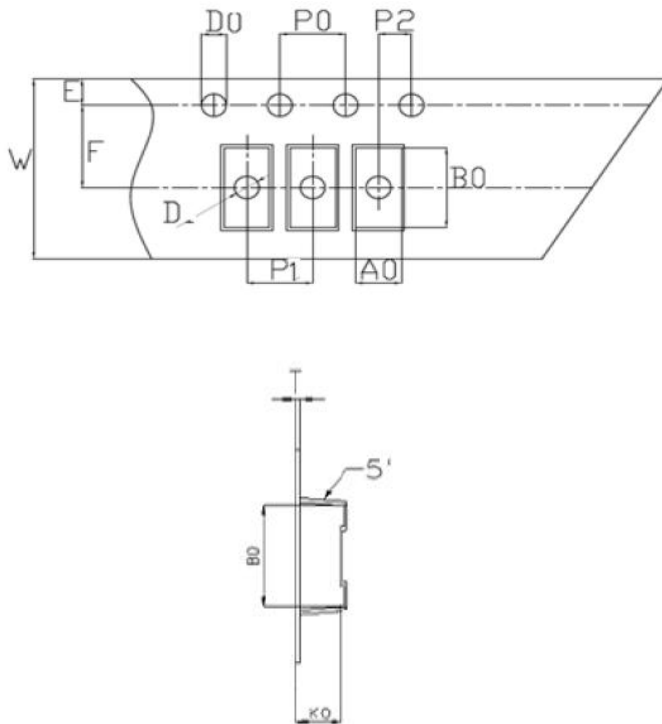
ABS22-HF

Where XXXXX is YYWWL

ABS22 = Type Number
ABS22H = Marking Code
YY = Year
WW = Week
L = Lot Number

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

Carrier Tape & Reel Specification ABS



SYMBOL	Millimeters	
	Min.	Max.
A0	5.21	5.41
B0	7.10	7.30
D0	1.50	1.60
D1	1.40	1.60
P0	3.90	4.10
P1	7.90	8.10
P2	1.95	2.05
E	1.65	1.85
K0	1.55	1.75
F	5.45	5.55
W	11.90	12.10
T	0.24	0.30
10P0	39.80	40.20

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