

## ABS Plastic-Encapsulate Bridge Rectifier

### Features

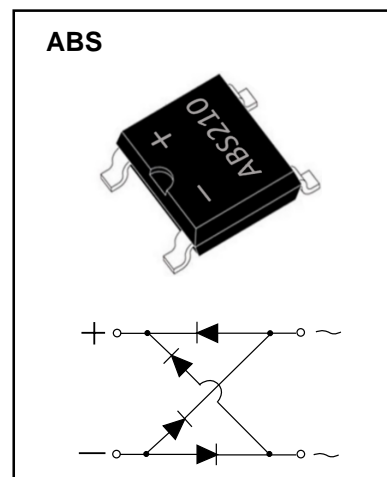
- $I_o$  2A
- $V_{RRM}$  50V-1000V
- High surge current capability
- Glass passivated chip
- Polarity: Color band denotes cathode

### Applications

- General purpose 1 phase Bridge rectifier applications

### Marking

- ABS2X
- X : From 02 To 10



### Limiting Values (Absolute Maximum Rating)

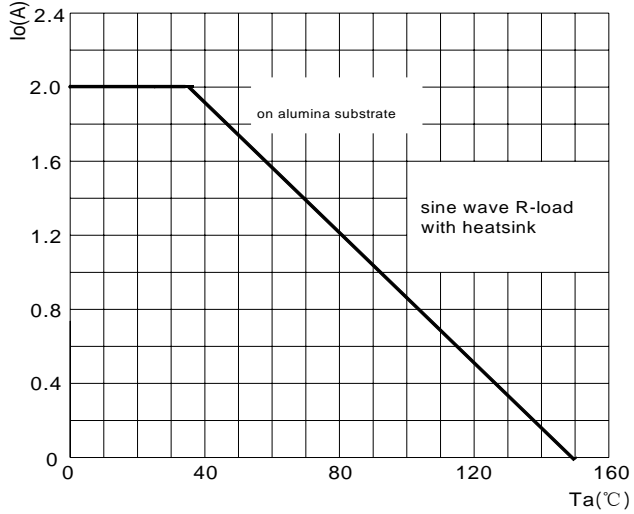
Item	Symbol	Unit	Conditions	ABS				
				202	204	206	208	210
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		200	400	600	800	1000
Maximum RMS Voltage	$V_{RMS}$	V		140	280	420	560	700
Average Rectified Output Current	$I_o$	A	60Hz sine wave, R-load, $T_a=35^\circ\text{C}$	On alumina substrate		2.0		
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$		60			
Current Squared Time	$I^2t$	$\text{A}^2\text{S}$	$1\text{ms} \leq t < 8.3\text{ms}$ $T_j=25^\circ\text{C}$ , Rating of per diode		14.94			
Storage Temperature	$T_{stg}$	$^\circ\text{C}$	-55 ~+150					
Junction Temperature	$T_j$	$^\circ\text{C}$	-55 ~+150					

### Electrical Characteristics ( $T=25^\circ\text{C}$ Unless otherwise specified)

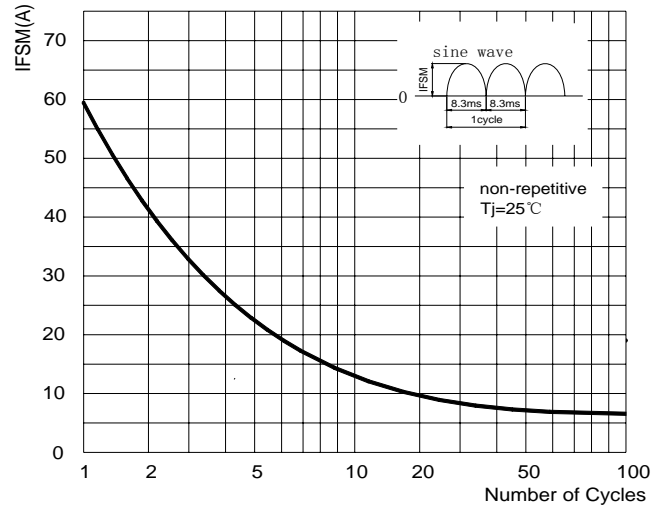
Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=2.0\text{A}$ , Pulse measurement, Rating of per diode	1.1
Peak Reverse Current	$I_{RRM}$	$\mu\text{A}$	$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	5
Thermal Resistance	$R_{\theta J-A}$	$^\circ\text{C}/\text{W}$	Between junction and ambient, On alumina substrate	62.5
	$R_{\theta J-L}$		Between junction and lead	25
	$R_{\theta J-C}$		Between junction and case	25

# Typical Characteristics

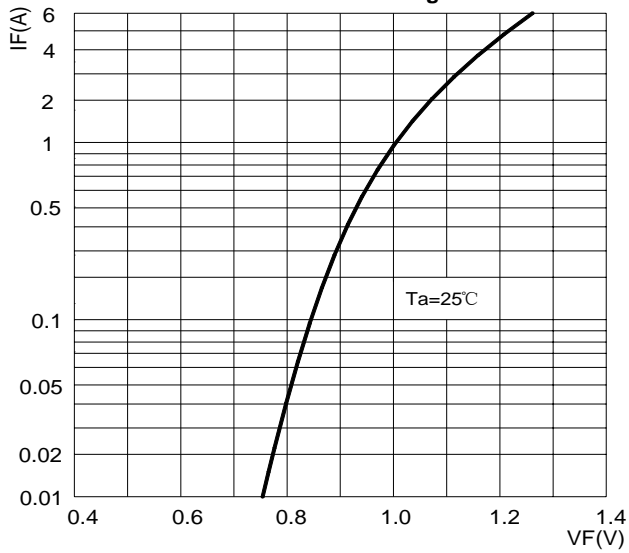
**FIG1:  $I_o$ - $T_a$  Curve**



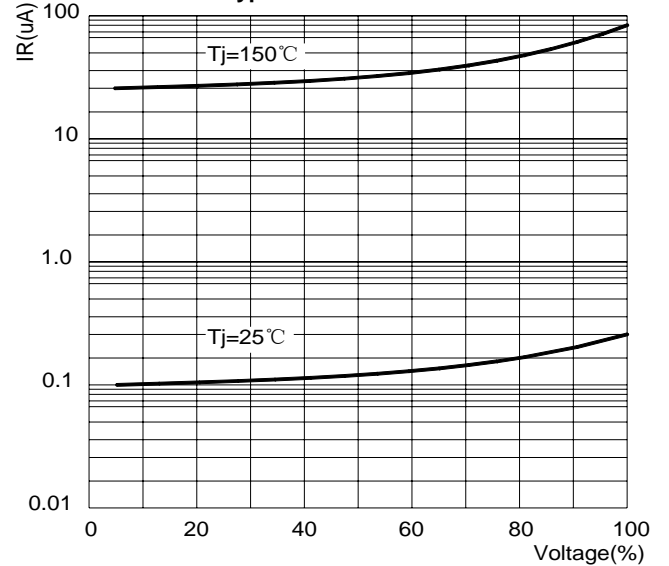
**FIG2: Surge Forward Current Capacity**



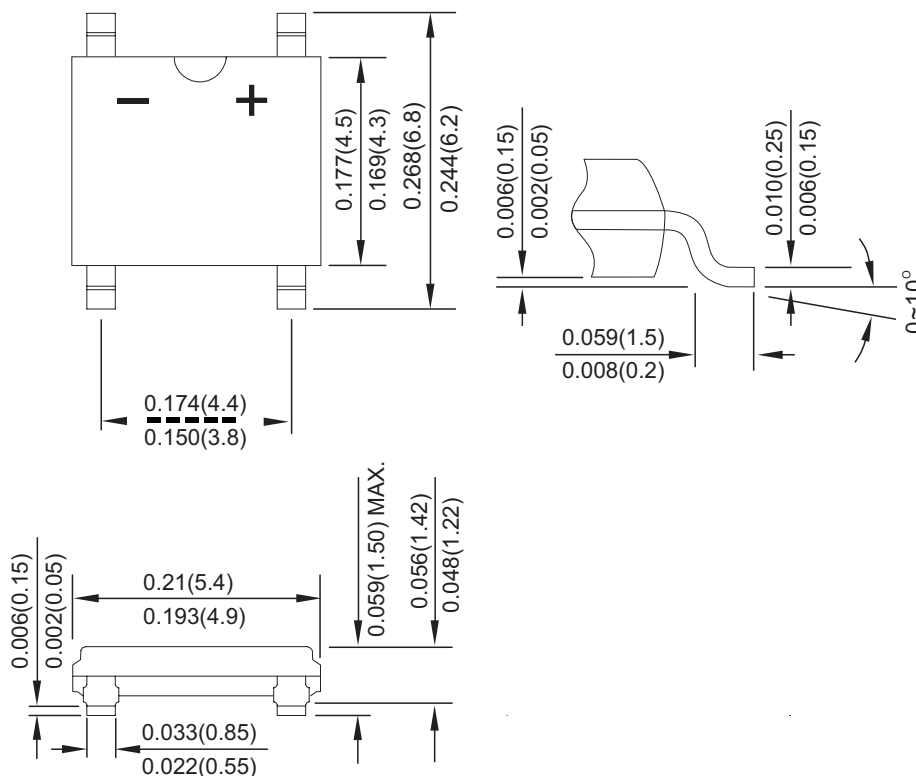
**FIG3: Forward Voltage**



**FIG4: Typical Reverse Characteristics**

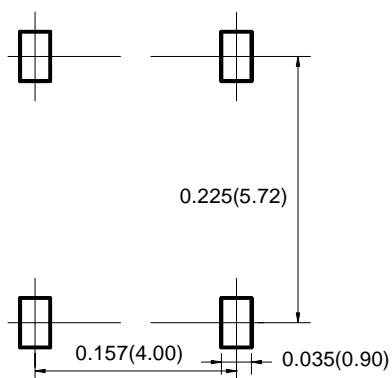


## ABS Package Outline Dimensions



Dimensions in inches and (millimeters)

## ABS Suggested Pad Layout



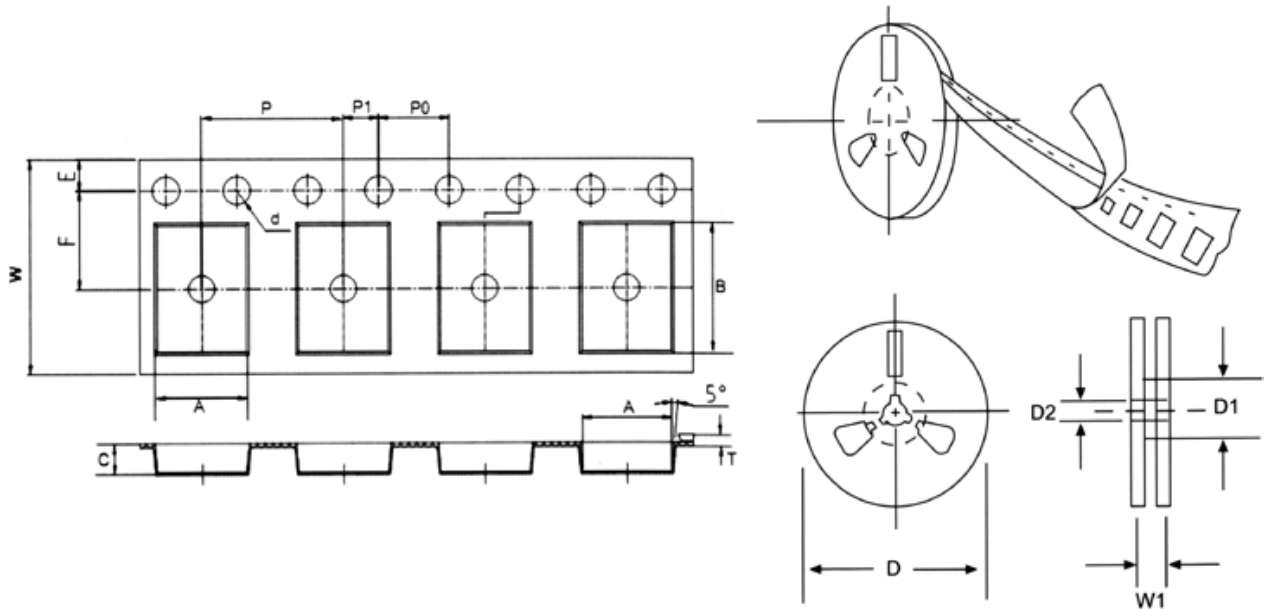
**Note:**

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05$ mm.
3. The pad layout is for reference purposes only.

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## Reel Taping Specifications For Surface Mount Devices-ABS



**FIG:CONFIGURATION OF AXIAL TAPING**

ITEM	SYMBOL	ABS mm(inch)
Carrier width	A	5.40+0.1(0.213+0.004)
Carrier length	B	6.90+0.05(0.272+0.002)
Carrier depth	C	2.10+0.1(0.083+0.004)
Sprocket hole	d	1.50+0.1/-0(0.059+0.004/-0)
Reel outside diameter	D	330/281+2.0(13/11+0.279)
Reel inner diameter	D1	8.0+0.2(0.315+0.008)
Feed hole diameter	D2	13+0.5(0.512+0.020)
Sprocket hole position	E	1.75+0.1(0.069+0.004)
Punch hole position	F	5.5+0.05(0.217+0.002)
Punch hole pitch	P	8.0+0.1(0.315+0.004)
Sprocket hole pitch	P0	4.0+0.1(0.157+0.004)
Embossment center	P1	2.0+0.1(0.079+0.004)
Total tape thickness	T	0.10-0.70(0.004-0.028)
Tape width	W	12.0+0.3/-0.1(0.472+0.004)
Reel width	W1	16.8+2.0(0.661+0.079)

NOTE: Devices are packed in accordance with EIA standard RS-481-A and specification given above.

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