



ABS20 thru ABS210



Glass Passivated Bridge Rectifier



ABS

Primary Characteristics		
I_F	2	A
V_{RRM}	50~1000	V
I_{FSM}	50	A
V_F	1.15	V
$T_J \text{ max}$	150	°C

Features
<ul style="list-style-type: none"> • Ideal for printed circuit board • Reliable low cost construction utilizing molded plastic technique results in inexpensive product • Lead tin plated copper

Mechanical Data
<ul style="list-style-type: none"> • Case: ABS • Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 • Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208 • Polarity: Cathode Band • Weight: 0.003 grams (approximate)

Ordering Information			
Part No.	Remark	Package	Packing
ABS20 thru ABS210	General	ABS	5000 / Tape & Reel
ABS20 thru ABS210-H	Halogen Free		

Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)									
Parameter	Symbol	ABS 20	ABS 21	ABS 22	ABS 24	ABS 26	ABS 28	ABS 210	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I_F	2							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage $I_F=2A$	V_F	1.15							V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=100^\circ\text{C}$	I_R	5 200							uA
Typical Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	62.5 25							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C
Marking Code		ABS 201	ABS 202	ABS 203	ABS 204	ABS 205	ABS 206	ABS 207	

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

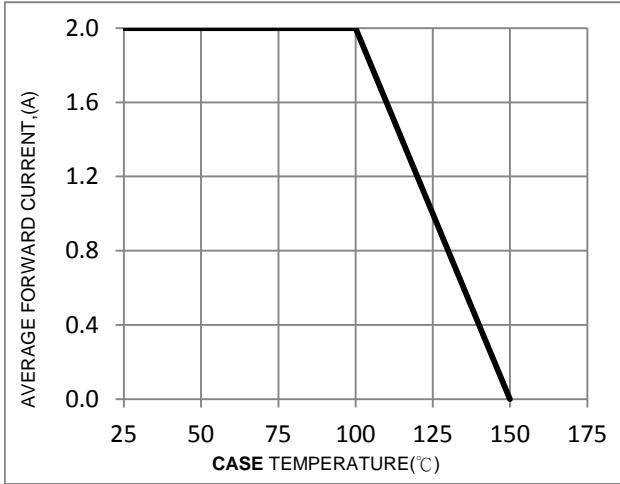


FIG. 2-Typical Forward Characteristics

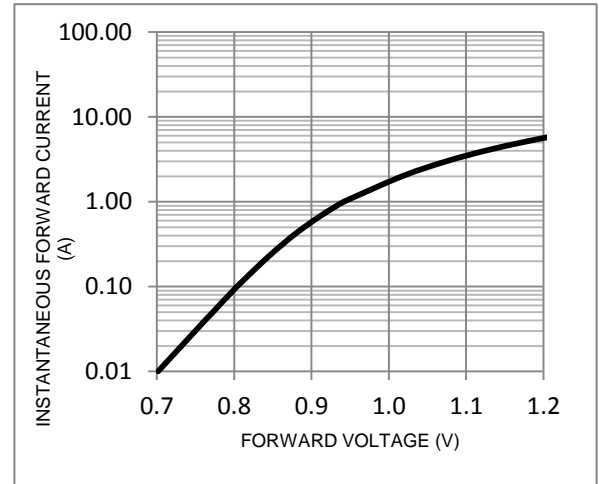


FIG. 3-Maximum Non-Repetitive Forward Surge Current

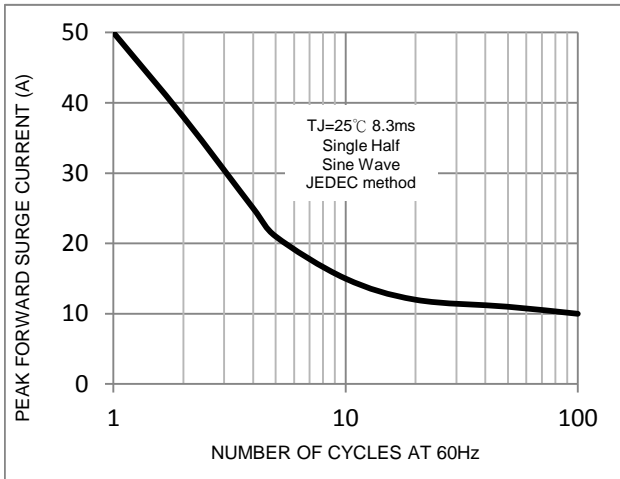
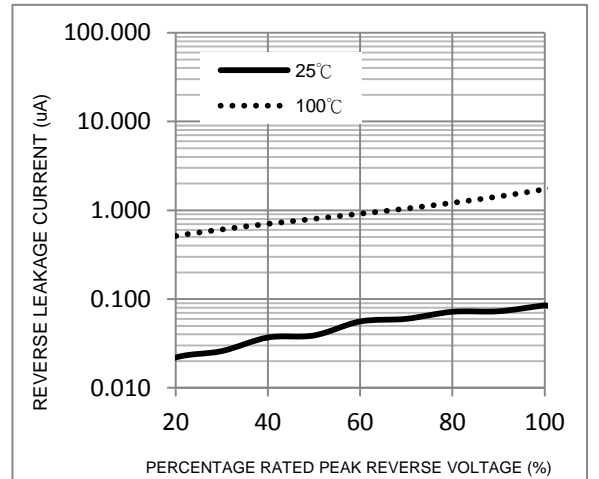
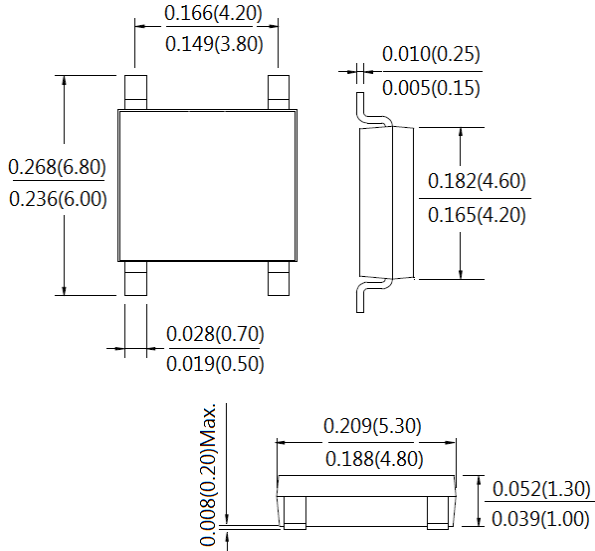


FIG. 4-Typical Reverse Characteristics



Package Outline Dimensions

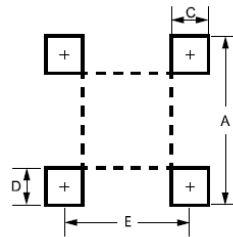


ABS

Dimensions in inches

Suggested Pad Layout

Dimension	Outline	ABS
	millimeters	
A	6.70	
C	1.10	
D	1.10	
E	4.00	



Tape & Reel Specification

ITEM	SYMBOL	ABS (mm)
Carrier width	A	5.31±0.10
Carrier length	B	6.68±0.10
Carrier depth	C	1.59±0.1
Sprocket hole	d	--
Reel outside diameter	D	330
Feed hole diameter	D0	13.5
Reel inner diameter	D1	75
Sprocket hole position	E	--
Punch hole position	F	--
Sprocket hole pitch	P	--
Sprocket hole pitch	Po	4.00±0.1
Embossment center	P1	--
Overall tape thickness	T	0.30±0.02
Tape width	W	12.0±0.10
Reel width	W2	18.1
Reel width	W1	13.5

