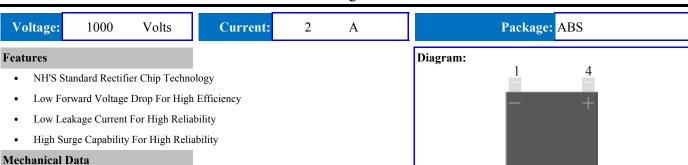


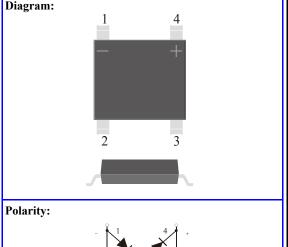
General Bridge Rectifiers



- Case: Molded With UL-94 ClassV-0 Recognized, RoHS-Compliant
- Polarity: Look At The Diagram And Polarity On The Right
- Terminals: Tin Plated Leads, Solderable Per J-STD-002 And JESD22-B102

Typical Applications

- Switch Mode Power Supplies (SMPS)
- Fast Chargers
- LED Driver And Monitor Lighting
- Automotive Electronics And Charging Posts



Single Phase, Half Wave, 60Hz, Resistive Or Inductive Load. For Capacitive Load, Derate Current By 20%

Maximum Ratings (Ta=25℃ Unless Otherwise Specified)					
Parameter	Test Conditions	Symbol	Ratings	Unit	
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1000	V	
Maximum RMS Voltag		V_{RMS}	700	V	
Maximum DC Blocking Voltage		V_{DC}	1000	V	
Maximum Average Forward Rectified Current		$I_{F(AV)}$	2	A	
Peak Forward Surge Current Per Diode	8.3ms Single Half Sine-wave Superimposed On Rate Load	I_{FSM}	70	A	
Current Squared Time Per Diode	t< 8.3ms	I ² t	20.3	A ² sec	

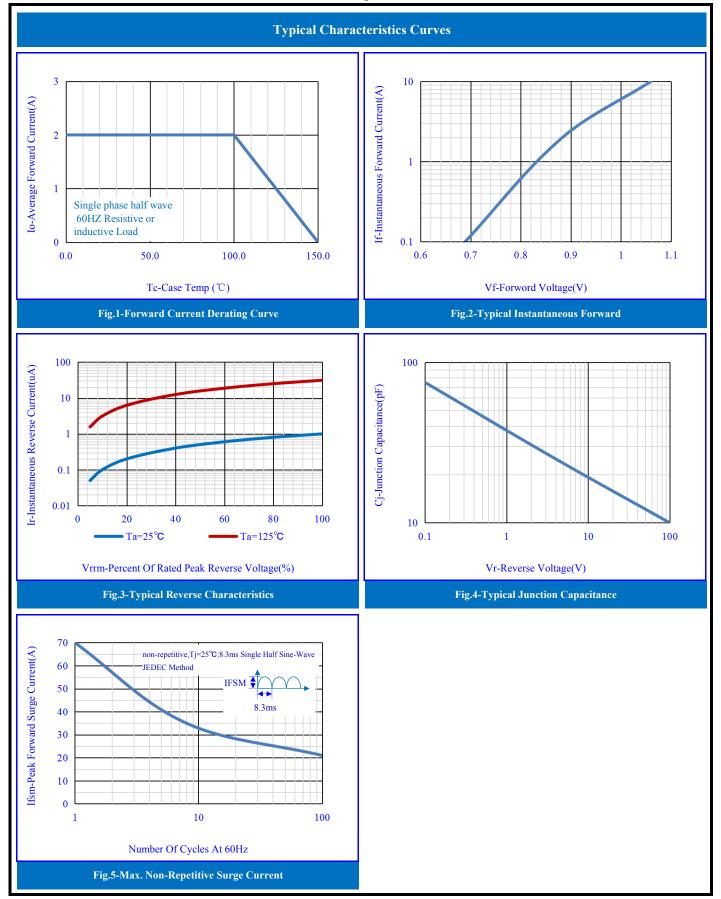
Electrical Characteristcs (Ta=25°C Unless Otherwise Specified)							
D	T. A.C. Pri	Symbol	Ratings			¥1	
Parameter	Test Conditions		Min.	Тур.	Max.	Unit	
Instaneous Forward Voltage Per Diode	I _F = 2.0 A	$\mathbf{V}_{\mathbf{F}}$		0.93	0.98	V	
Maximum DC Reverse Current at Rated DC	$Ta=25^{\circ}C$, $V_R=VRRM$	Ţ		1	5	uA	
Blocking Voltage	$Ta=125$ °C , $V_R=VRRM*80\%$	I _{RRM}		25	200	uA	
Typical Junction Capacitance Per Diode	4 V,1MHz	C_{J}		25		pF	

Thermal Characteristcs (Ta=25°C Unless Otherwise Specified)							
Parameter	Test Conditions	Symbol]	Ratings			Unit
Operating Junction Temperature Range		T_{J}	-55	to	150		°C
Storage Temperature Range		T _{STD}	-55	to	150		C
Thermal Resistance Junction To Ambient	Still Air Environment	n		60.0			
With Steady-State	With Ta=25 ℃	$R_{\theta JA}$	60.0		°C/W		
Thermal Resistance Junction-Case	Device Mounted On	D		16.0			C/W
With Steady-State	1 in 2 FR-4 Board With 2oz. Copper	$R_{\theta JC}$		16.0			
Notes: 3							

Http://www.nh-semicon.com Date:2014-10-20 Rev.:A/1 Page: 1 of 6



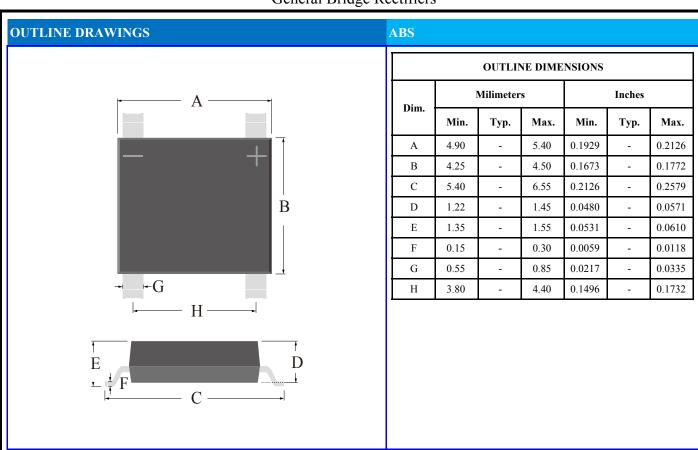
General Bridge Rectifiers



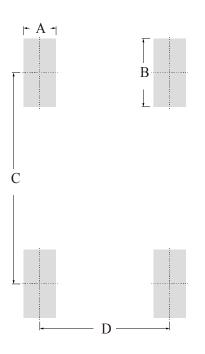




General Bridge Rectifiers







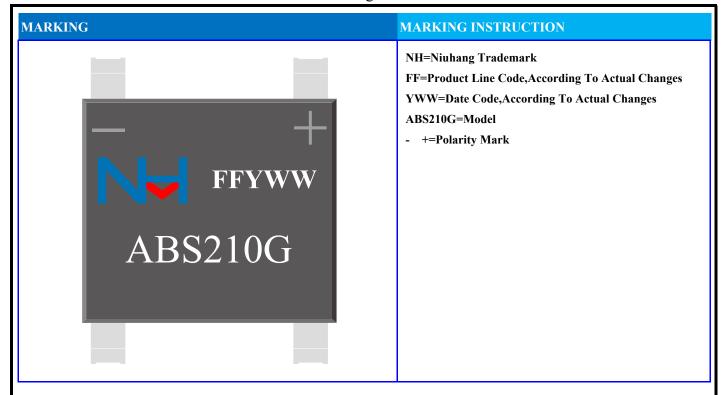
ABS

OUTLINE DIMENSIONS							
D:	I	Milimeter	s	Inches			
Dim.	Min.	Тур.	Max.	Min.	Тур.	Max.	
A	-	1.00	-	-	0.0394	-	
В	-	2.00	-	-	0.0787	-	
C	-	6.20	-	-	0.2441	-	
D	-	4.00	-	-	0.1575	-	





General Bridge Rectifiers



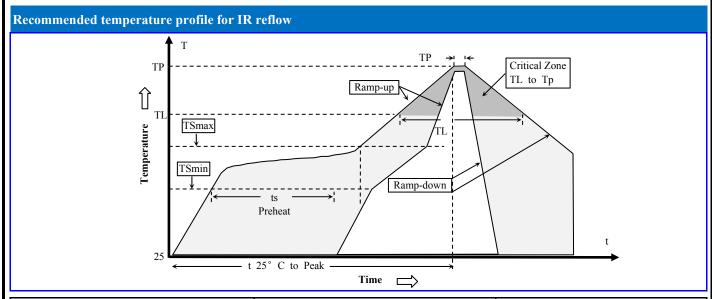
PACKING INFORMATION							
Package Type	Package Code	Productor Weight Approx(g/Pcs)	Package Method	Quantity (Pcs/Min. Pack.)	Quantity (Pcs/Inner Box)	Quantity (Pcs/Carton)	
ABS	P1	0.09	13" Reel	5000	10000	50000	
ABS	P2	0.09	13" Reel	5000	10000	100000	

Http://www.nh-semicon.com Date:2014-10-20 Rev.:A/1 Page: 4 of 6



General Bridge Rectifiers

Recommended wave soldering condition						
Product	Peak Temperature	Soldering Time				
Pb-free devices	260 +0/-5 °C	5 +1/-1 seconds				



Profile feature	Sn-Pb eutectic Assembly	Pb-free Assembly
Average ramp-up rate (Tsmax to Tp)	3°C/second max.	3°C/second max.
Preheat -Temperature Min(TS min) -Temperature Max(TS max) -Time(ts min to ts max)	100°C 150°C 60-120 seconds	150°C 200°C 60-180 seconds
Time maintained above: -Temperature (TL) - Time (tL)	183°C 60-150 seconds	217°C 60-150 seconds
Peak Temperature(TP)	240 +0/-5 °C	260 +0/-5 °C
Time within 5°C of actual peak temperature(tp)	10-30 seconds	20-40 seconds
Ramp down rate	6°C/second max.	6°C/second max.
Time 25 °C to peak temperature	6 minutes max.	8 minutes max.

Note: All temperatures refer to topside of the package, measured on the package body surface.



General Bridge Rectifiers

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