

OM SENI

ABS Plastic-Encapsulate Bridge Rectifier

Features

- Ideal for printed circuit board
- Small size, simple installation
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260/10 seconds at 5lbs., (2.3kg) tension

ABS205 THRU ABS210

Reverse Voltage

50-1000 V

Forward Current

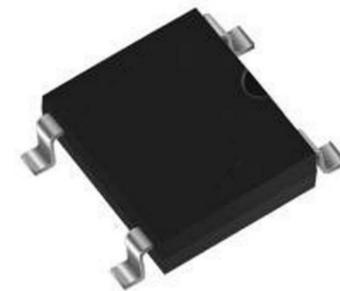
2.0 Ampere

Applications

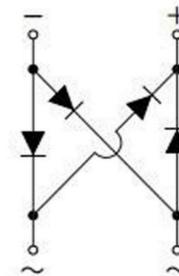
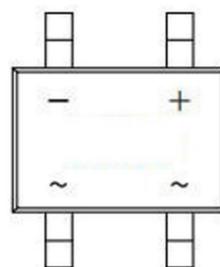
General purpose 1 phase Bridgerectifier applications

Mechanical Data

- Case: ABS
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end



Function Diagram



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ABS205	ABS21	ABS22	ABS24	ABS26	ABS28	ABS210
Device marking code			ABS205	ABS21	ABS22	ABS24	ABS26	ABS28	ABS210
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Maximum Average Forward Rectified Current @60Hz sinewave, Resistance load, TL (Fig.1)	$I_{F(AV)}$	A	2.0						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	60						
Rating for fusing (t=8.3ms, Ta=25 °C)	I^2t	A ² S	14.9						
Storage temperature	T_{stg}	°C	-55 ~ +150						
Junction temperature	T_j	°C	-55 ~ +150						
Typical Thermal Resistance	$R_{\theta JA}$	°C/W	75						
	$R_{\theta JL}$	°C/W	18						

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Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	ABS205	ABS21	ABS22	ABS24	ABS26	ABS28	ABS210
Maximum instantaneous forward voltage	$I_F=1.0A$	V_F	V				1.0			
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^\circ C$	I_{R1}	μA				5.0			
	$V_R=V_{DC}, T_A=100^\circ C$	I_{R2}					500			
Typical junction capacitance	4.0V DC, 1MHz	C_J	pF				25			

Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)

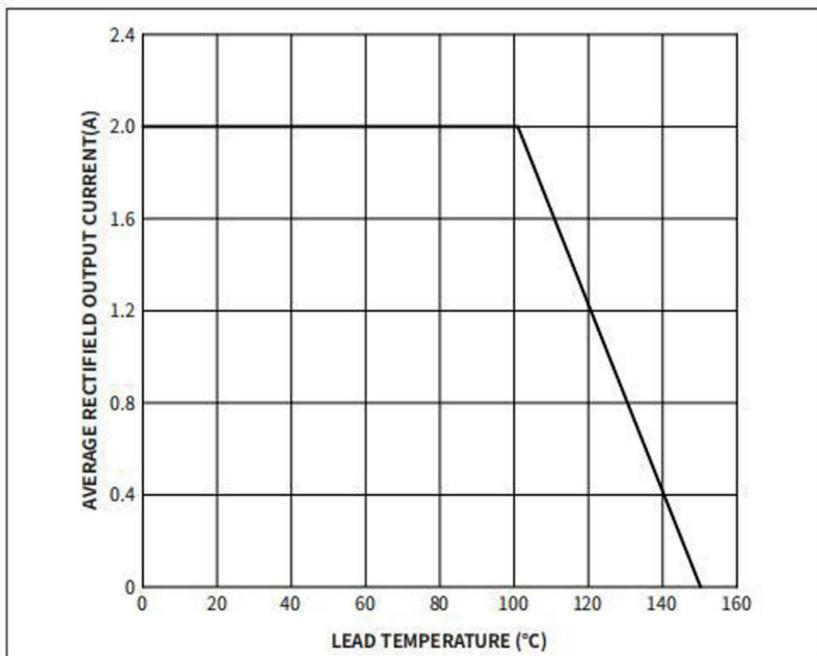


Fig.1 Forward Current Derating Curve

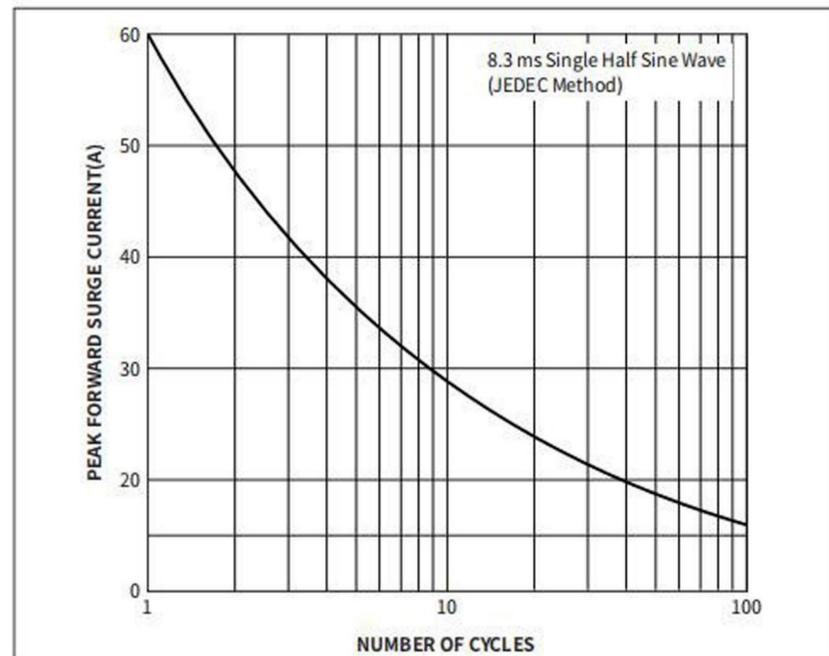


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

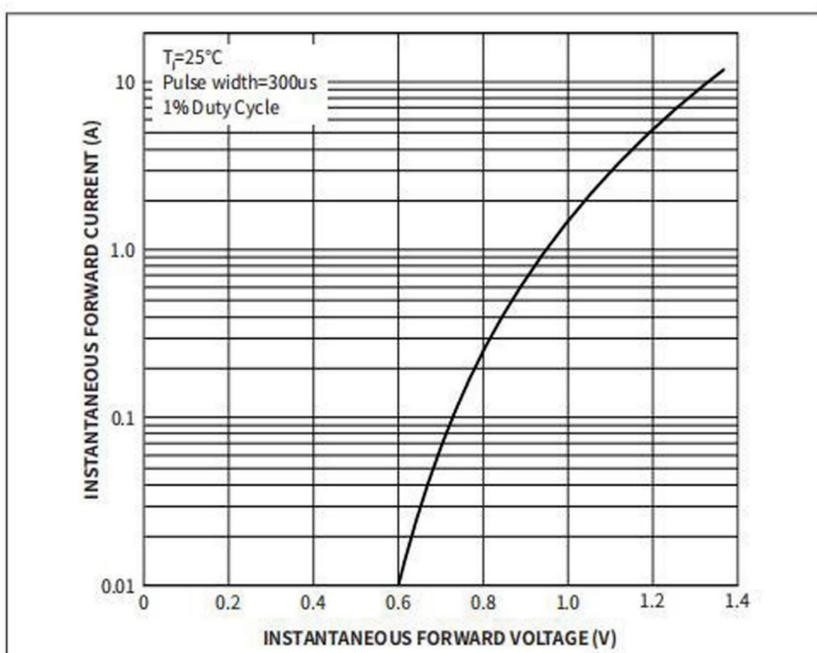


Fig.3 Typical Forward Voltage

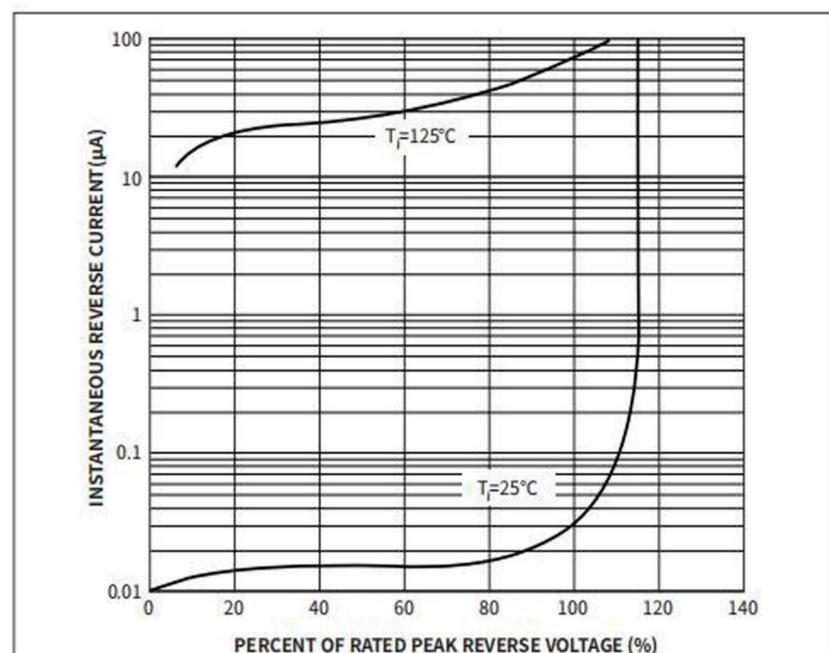


Fig.4 Typical Reverse Characteristics

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Ordering Information

PACKAGE	PACKAGE CODE	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
ABS	R3	5000	10000	50000	13"

Package Outline Dimensions (ABS)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.25	1.45	0.049	0.057
A1	-	0.2	-	0.008
B	3.9	4.1	0.126	0.141
B1	0.5	0.8	0.02	0.031
C	0.15	0.35	0.006	0.014
D	4.8	5.1	0.197	0.201
E	4.2	4.6	0.165	0.181
F	0.3	0.8	0.012	0.031
G	6.2	7.0	0.244	0.275

Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
M	5.72	5.9	0.225	0.232
N	4.0	4.2	0.157	0.165
Y	1.0	1.2	0.039	0.047
X	0.9	1.1	0.035	0.043