

Bridge Rectifiers

Features

- UL recognition, file #E313149
- Ideal for automated placement
- High surge current capability
- Meets MSL level 1, per J peak of 260 °C

Typical Applications

General purpose use in AC/DC bridge full wave rectification for SMPS, lighting ballast, adapter, battery charger, home appliances, office equipment, and telecommunication applications.

Mechanical Data

• Package: ABS

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free

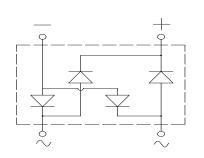
• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22

-B102

• Polarity: As marked on body





■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ABS1502	ABS1504	ABS1506	ABS1508	ABS1510
Device marking code			ABS1502	ABS1504	ABS1506	ABS1508	ABS1510
Repetitive peak reverse voltage	VRRM	V	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Ta=40°C, on Alumina Substrate	Ю	Α	1.5				
Surge(non-repetitive)forward current @60 Hz half sine wave, 1 cycle, Tj=25°C	IFSM	А	40				
Current squared time @1ms≤t<8.3ms Tj=25°C,Rating of per diode	l ² t	A ² s	6.6				
Storage temperature	Tstg	$^{\circ}$	-55 ~+150				
Junction temperature	Tj	$^{\circ}$	-55 ~+150				

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	ABS1502	ABS1504	ABS1506	ABS1508	ABS1510
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=0.7A			0.95		
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM			5		



ABS1502 THRU ABS1510

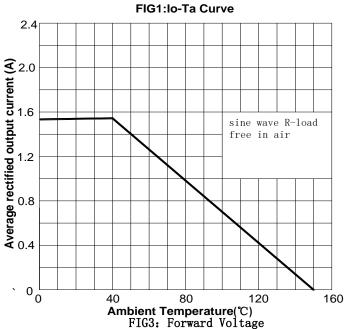
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

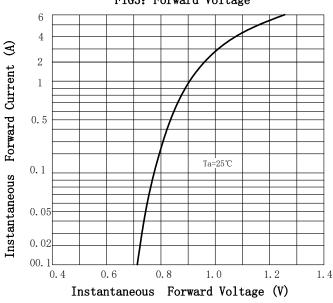
	PARAMETER	SYMBOL	UNIT	ABS1502	ABS1504	ABS1506	ABS1508	ABS1510	
Thermal Resistance	Between junction and ambient, On alumina substrate	RøJ-A	°C/W	62.5					
Resistance	Between junction and lead	R ₀ J-L		25.0					

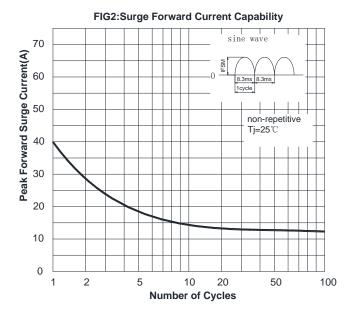
■Ordering Information (Example)

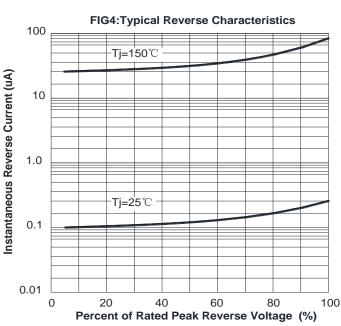
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ABS1502-ABS1510	F1	Approximate 0.095	4000	8000	64000	13" reel

■ Characteristics (Typical)



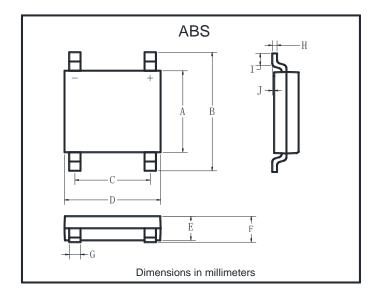






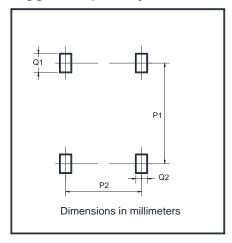
ABS1502 THRU ABS1510

■ Outline Dimensions



ABS					
Dim	Min	Max			
Α	4.30	4.50			
В	6.00	6.40			
С	3.90	4.10			
D	4.90	5.10			
Е	1.25	1.45			
F	1.60 Max				
G	0.60	0.70			
Н	0.15	0.25			
I	0.30	0.80			
J	0.02	0.15			

■ Suggested pad layout



Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90

ABS1502 THRU ABS1510

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