

Bridge Rectifiers

Features

- UL recognition, file #E313149
- Ideal for automated placement
- Glass passivated chip junction
- High surge current capability
- Meets MSL level 1, per J-STD-020, LF maximum 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, -compliant, Halogen free
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: As marked on body

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

PARAMETER	SYMBOL	UNIT	ABS1502	ABS1504	ABS1506	ABS1508	ABS1510
Device marking code			ABS1502	ABS1504	ABS1506	ABS1508	ABS1510
Maximum Repetitive Peak Reverse Voltage	VRRM	V	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=127°C	IO	А	1.5				
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C	Incont		50				
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃	IFSM	A	100				
Current squared time @1ms≤t<8.3ms Tj=25℃,Rating of per diode	l²t	A²s	10.4				
Storage temperature	T _{stg}	°C	-55 ~ +150				
Junction temperature	Tj	°	-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	V	IFM=0.7A	0.95					
Maximum DC reverse current	t IR		Tj =25℃	5					
at rated DC blocking voltage IR per diode		μA	Tj =125℃	100					
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C						

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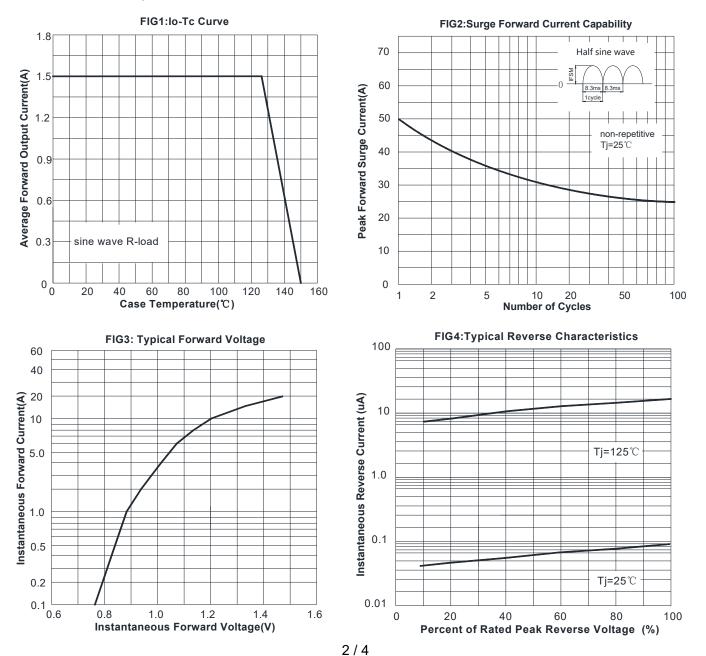
PARAMETER		SYMBOL	UNIT	ABS1502	ABS1504	ABS1506	ABS1508	ABS1510	
	Between junction and ambient	R ₀ J-A		62.5					
Thermal Resistance	Between junction and lead	RθJ-L	°C/W	25.0					
	Between junction and case	Røj-C		8.0					

Note: Device mounted on P.C.B with 35mm*25mm*1.7mm

Ordering Information (Example)

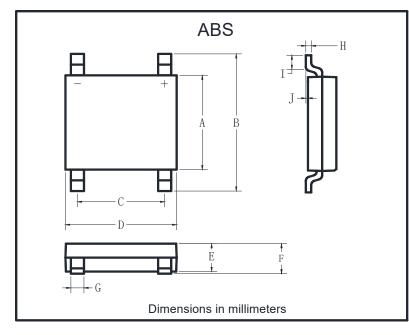
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PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
ABS1502-ABS1510	F1	Approximate 0.095	4000	1	64000	13" reel	
ABS1502-ABS1510	F5	Approximate 0.095	5000	1	80000	13" reel	

Characteristics (Typical)



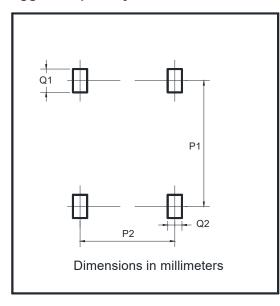
Shanghai Sunco Electronics Co., Ltd.

Outline Dimensions



ABS					
Dim	Min	Max			
А	4.30	4.50			
В	6.00	6.40			
С	3.90	4.10			
D	4.90	5.10			
E	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
Dim	WIII
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90



Disclaimer

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