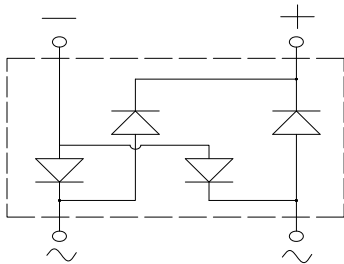


Bridge Rectifiers



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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ABS22	ABS24	ABS26	ABS28	ABS210	
Device marking code			ABS22	ABS24	ABS26	ABS28	ABS210	
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, T _c =120°C	I _O	A	2.0					
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25°C	IFSM	A	50					
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C			100					
Current squared time @1ms≤t<8.3ms T _j =25°C, Rating of per diode	I ² t	A ² s	10.4					
Storage temperature	T _{stg}	°C	-55 ~ +150					
Junction temperature	T _j	°C	-55 ~ +150					

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	ABS22	ABS24	ABS26	ABS28	ABS210
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =1.0A	0.95				
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C	5				
			T _j =125°C	100				
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	17				

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

PARAMETER		SYMBOL	UNIT	ABS22	ABS24	ABS26	ABS28	ABS210
Thermal Resistance	Between junction and ambient	R _{θJ-A}	°C/W	62.5				
	Between junction and lead	R _{θJ-L}		25.0				
	Between junction and case	R _{θJ-C}		8.0				

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

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ABS22-ABS210	F1	Approximate 0.095	4000	/	64000	13" reel
ABS22-ABS210	F5	Approximate 0.095	5000	/	80000	13" reel

■ Characteristics (Typical)

FIG1: I_o-T_c Curve

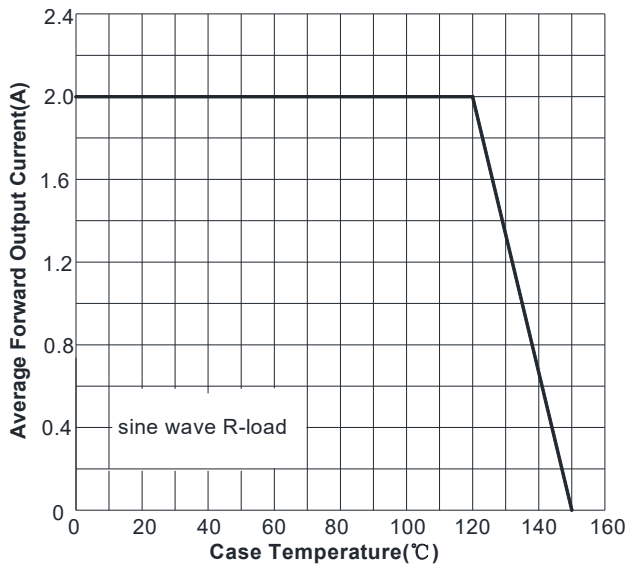


FIG2: Surge Forward Current Capability

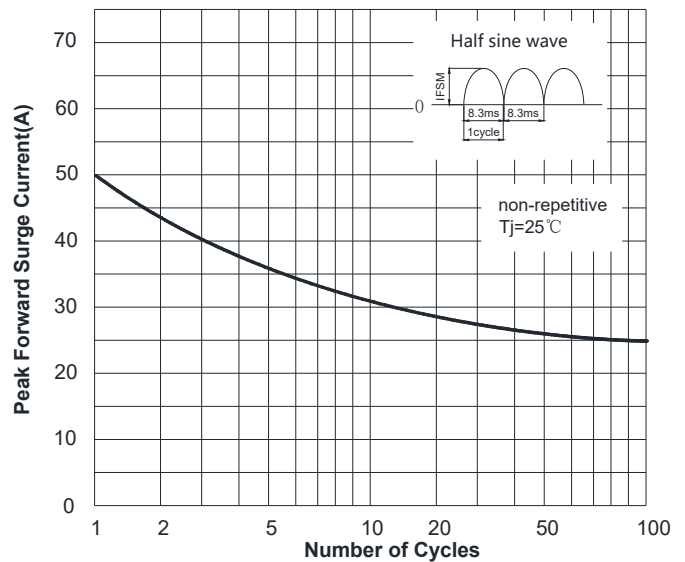


FIG3: Typical Forward Voltage

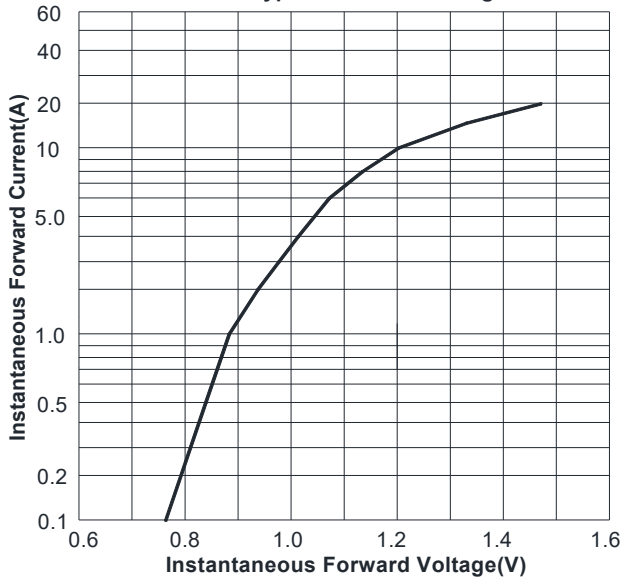
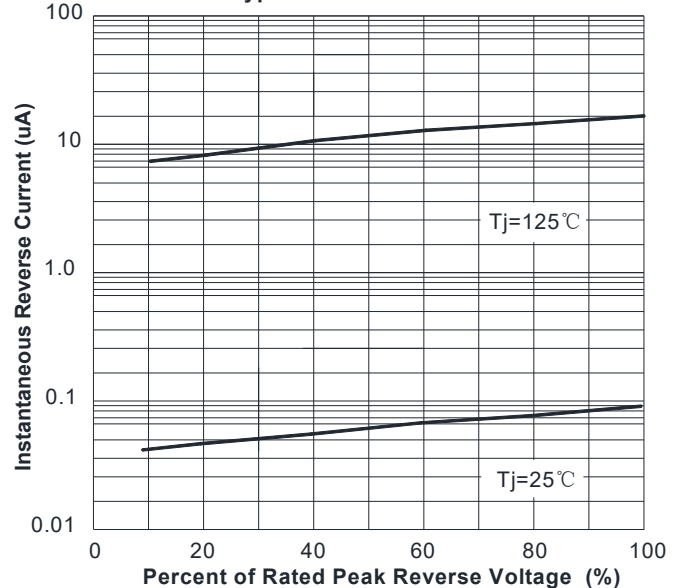
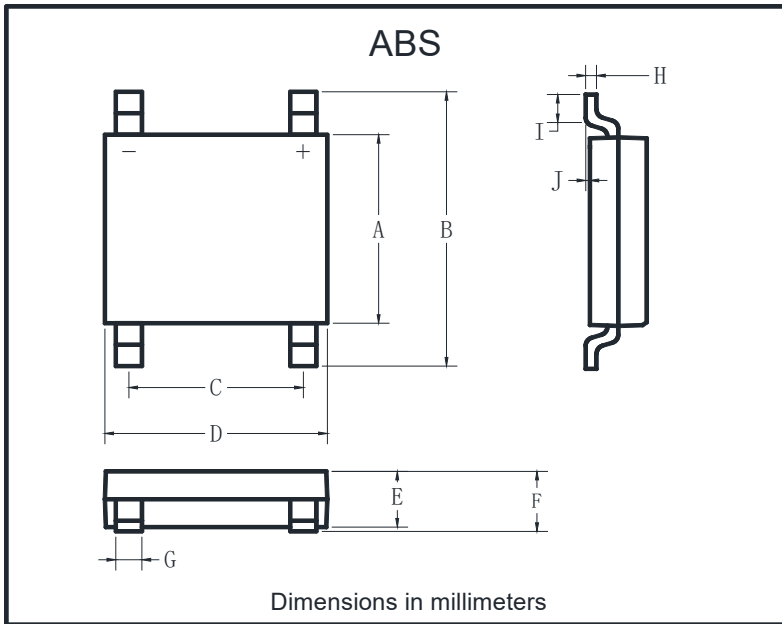


FIG4: Typical Reverse Characteristics

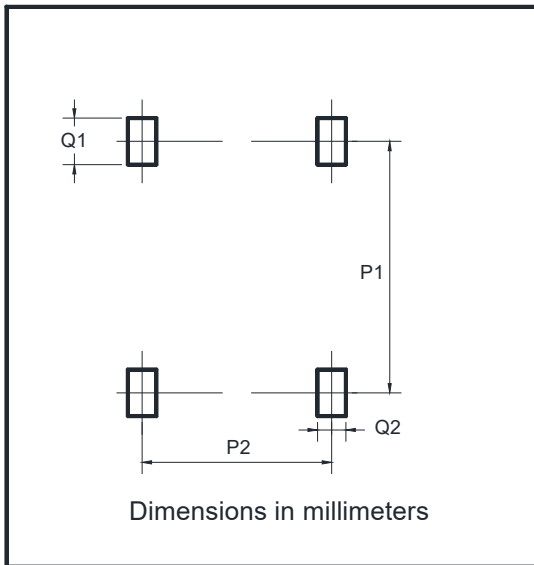


■ Outline Dimensions



ABS		
Dim	Min	Max
A	4.30	4.50
B	6.00	6.40
C	3.90	4.10
D	4.90	5.10
E	1.25	1.45
F	1.60 Max	
G	0.60	0.70
H	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

Disclaimer

The information presented in this document is for reference only. Shanghai Sunco Electronics Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Russiansunco or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.russiansunco.com](http://www.russiansunco.com) , or consult your nearest Russiansunco's sales office for further assistance.