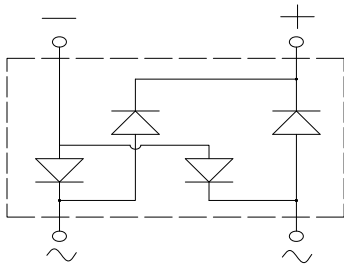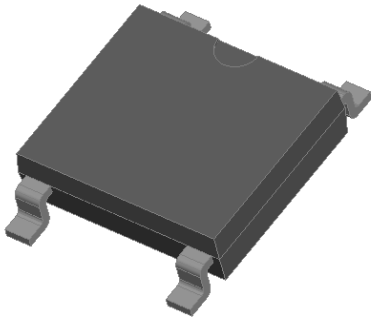# Bridge Rectifiers

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, 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℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	ABS22	ABS24	ABS26	ABS28	ABS210
Device marking code			ABS22	ABS24	ABS26	ABS28	ABS210
Maximum Repetitive Peak Reverse Voltage	V$_{RRM}$	V	200	400	600	800	1000
Maximum RMS Voltage	V$_{RMS}$	V	140	280	420	560	700
Maximum DC blocking Voltage	V$_{DC}$	V	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Tc=120℃	I$_O$	A	2.0				
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25℃	I$_{FSM}$	A	50				
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25℃			100				
Current squared time @1ms≤t<8.3ms Tj=25℃，Rating of per diode	I²t	A²s	10.4				
Storage temperature	T$_{stg}$	℃	-55 ~ +150				
Junction temperature	T$_j$	℃	-55 ~ +150				

■Electrical Characteristics （T$_a$=25℃ 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℃	5				
			T$_j$=125℃	100				
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	17				

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■Thermal Characteristics （T_a=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	ABS22	ABS24	ABS26	ABS28	ABS210
Thermal Resistance	Between junction and ambient	RθJ-A	℃/W	62.5				
	Between junction and lead	RθJ-L		25.0				
	Between junction and case	RθJ-C		8.0				

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

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM 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:Io-Tc Curve

sine wave R-load
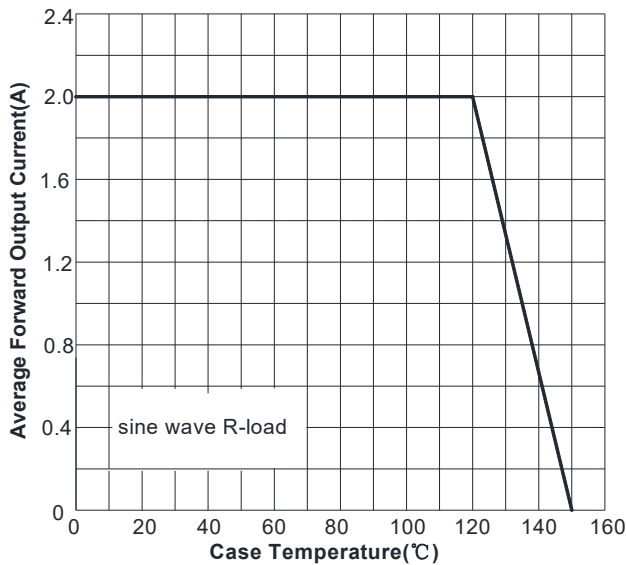
FIG2:Surge Forward Current Capability
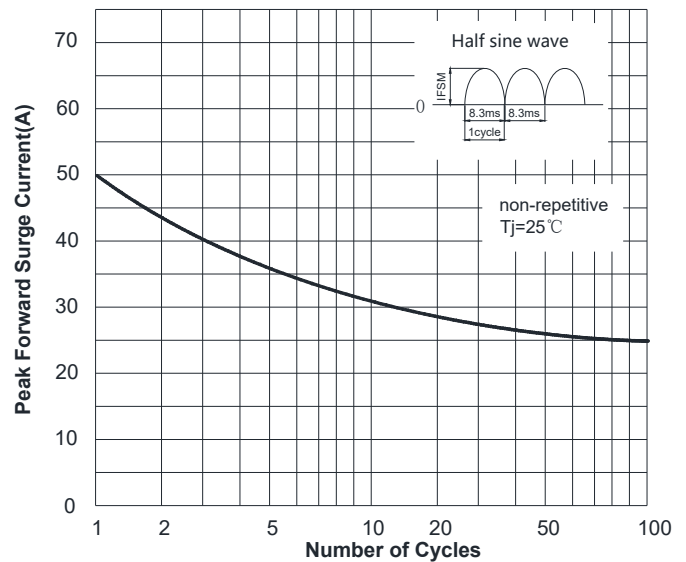
Half sine wave

non-repetitive
Tj=25℃

8.3ms 8.3ms
1cycle

FIG3: Typical Forward Voltage
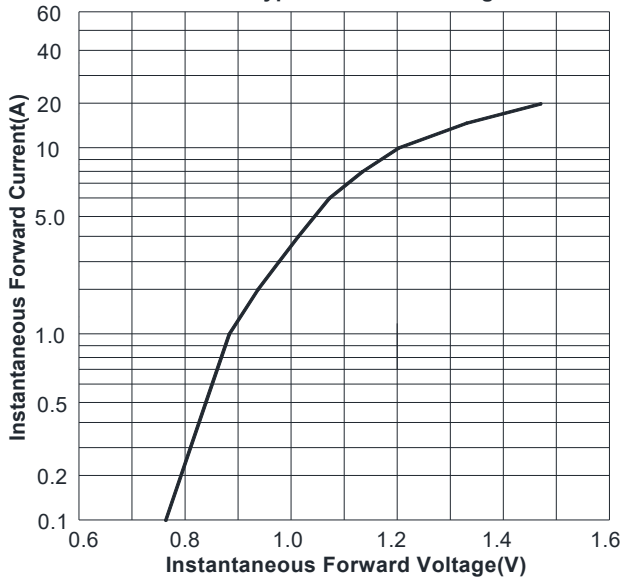
FIG4:Typical Reverse Characteristics

Tj=125℃

Tj=25℃

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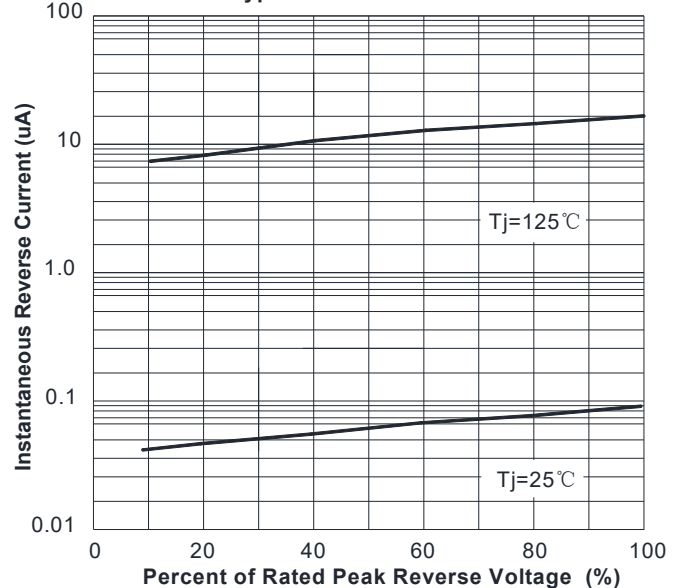
■ Outline Dimensions

ABS

Dimensions in millimeters
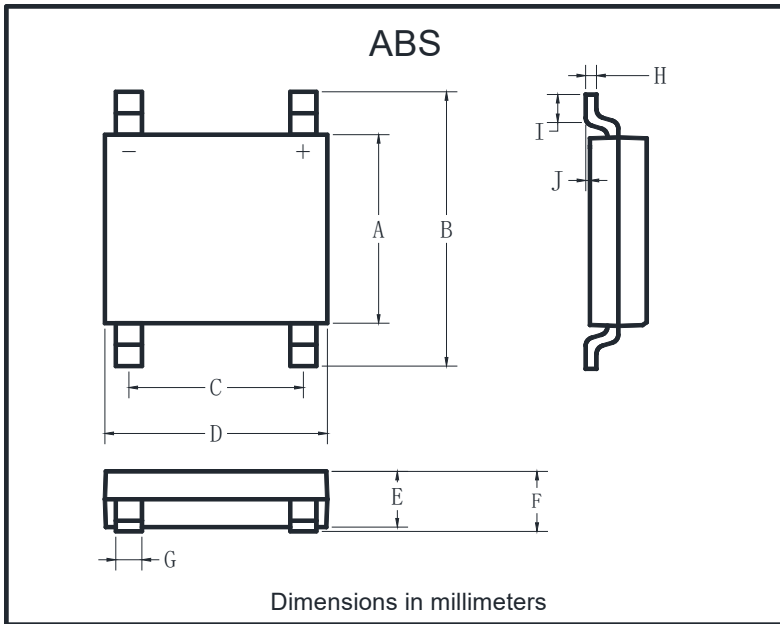
ABS		
Dim	Min	Max
A	4.30	4.50
B	6.00	6.40
C	3.90	4.10
D	4.90	5.10
E	1.25	1.45
F	1.60 Max	
G	0.60	0.70
H	0.15	0.25
I	0.30	0.80
J	0.02	0.15

■ Suggested pad layout

Dimensions in millimeters
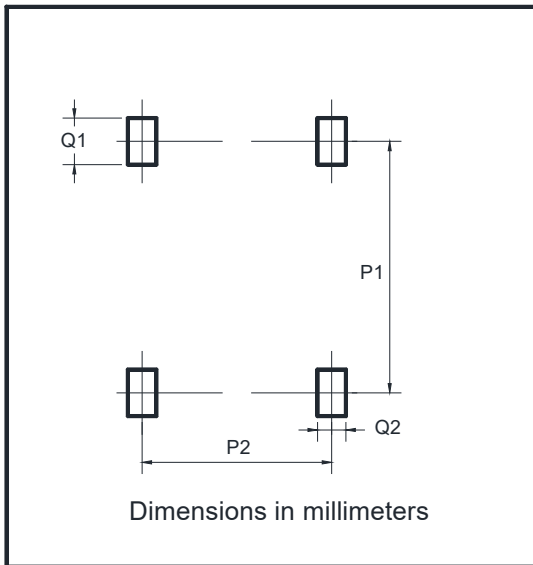
Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90

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