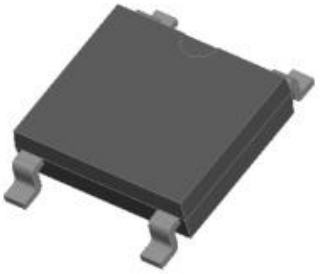
Bridge Rectifiers

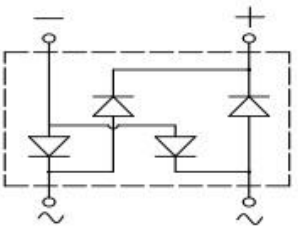
Features

- UL recognition, file #E313149
- Ideal for automated placement
- 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 (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ABS22	ABS24	ABS26	ABS28	ABS210
Device marking code			ABS22	ABS24	ABS26	ABS28	ABS210
Repetitive peak reverse voltage	V_{RRM}	V	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, Ta=40℃, on Alumina Substrate	IO	A	2.0				
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, T_j=25℃	IFSM	A	45				
Current squared time @1ms≤t≤8.3ms Tj=25℃, Rating of per diode	I^2t	A^2s	8.4				
Storage temperature	Tstg	℃	-55 ~+150				
Junction temperature	Tj	℃	-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	VF	V	IFM=1.0A	0.95				
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	5				

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

PARAMETER		SYMBOL	UNIT	ABS22	ABS24	ABS26	ABS28	ABS210
Thermal Resistance	Between junction and ambient, On alumina substrate	RθJ-A	℃/W	62.5				
	Between junction and lead	RθJ-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
ABS22-ABS210	F1	Approximate 0.095	4000	8000	64000	13” reel

■ Characteristics (Typical)

FIG1:Io-Ta Curve

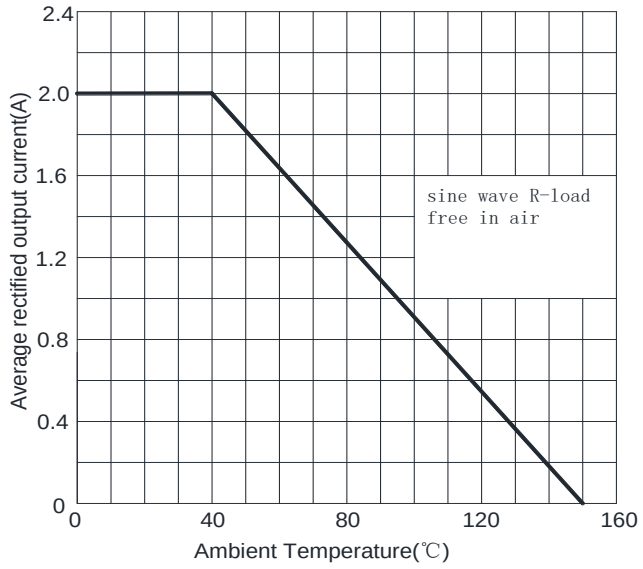


FIG2：Surge Forward Current Capability

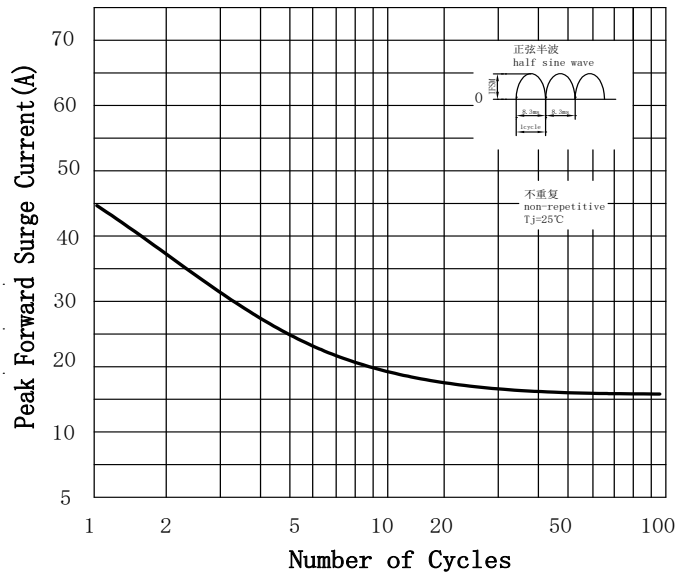


FIG3：Forward Voltage

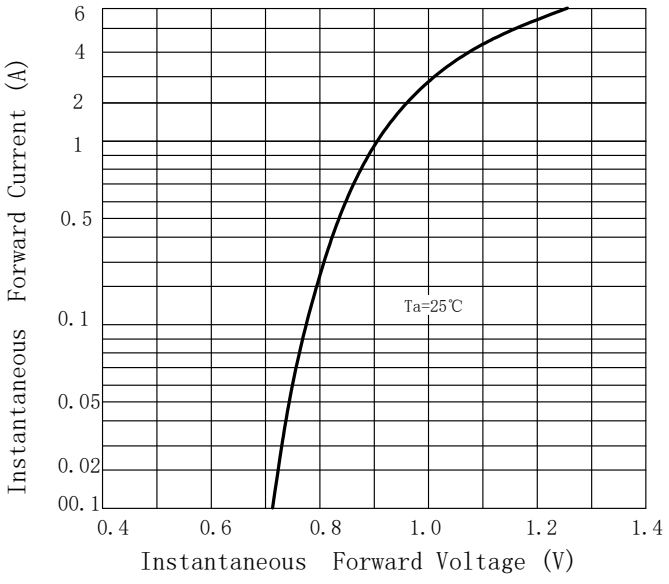
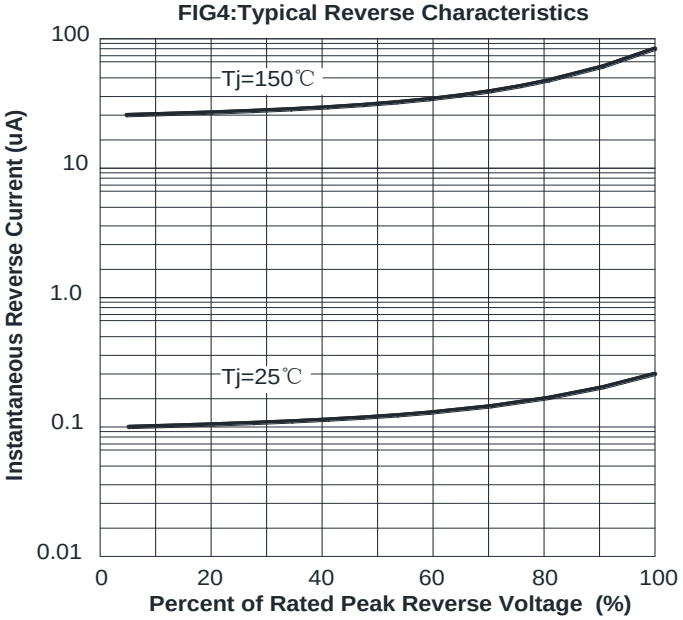
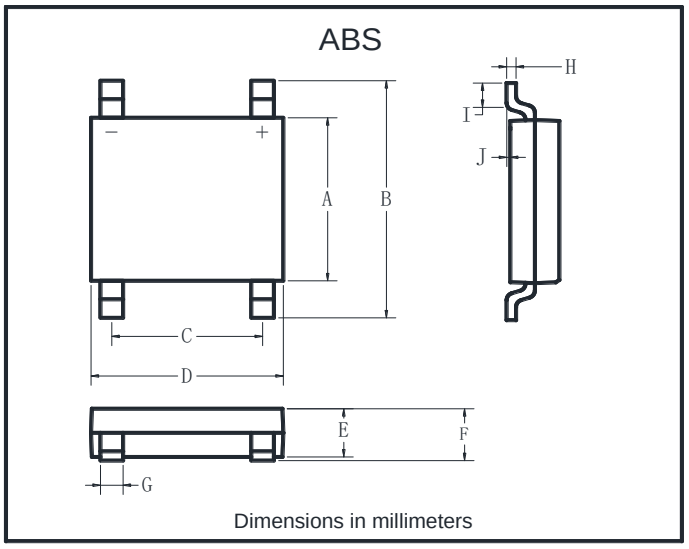


FIG4:Typical Reverse Characteristics

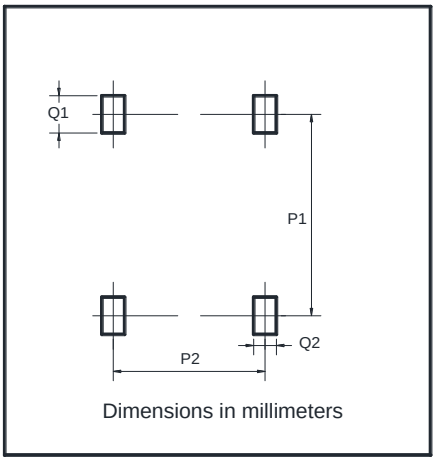


■ Outline Dimensions



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

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