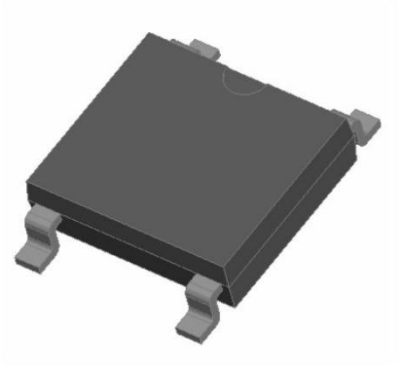
ABS22 THRU ABS210

Bridge Rectifiers

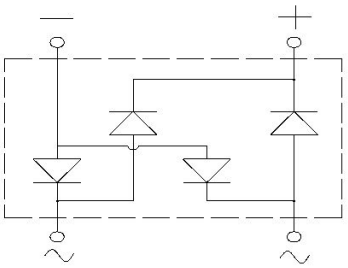


Features

- High efficiency
- 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 power supply, lighting ballast, battery charger, home appliances, office equipment, and telecommunication applications.



Mechanical Data

- Package:ABS

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

- 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
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 Forward Current @Half-sine wave, Resistance load, Tc(Fig.1)，On alumina substrate	I_O	A	2.0				
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25℃	I_{FSM}	A	50				
Current squared time @1ms≤t8.3≤ms Ta=25℃，Rating of per diode	I^2t	A^2s	10.4				
Thermal Resistance(Typical) @Between junction and ambient，On alumina substrate	$R_{\theta J-A}$	℃/W	62.5				
Storage Temperature	T_{stg}	℃	-55 ~ +150				
Junction Temperature	T_j	℃	-55 ~ +150				

■ Electrical Characteristics （Ta=25℃ Unless otherwise specified）

PARAMETER	Symbol	Unit	Conditions	ABS22	ABS24	ABS26	ABS28	ABS210
Peak Forward Voltage	VFM	V	I F =1.0A	1.0				
Peak Reverse Current	I_{RRM}	μA	VR =V_{DC} @Ta=25℃	10				
			VR =V_{DC} @Ta=125℃	500				

■ Characteristics（Typical）

FIG.1: Io-Ta Curve

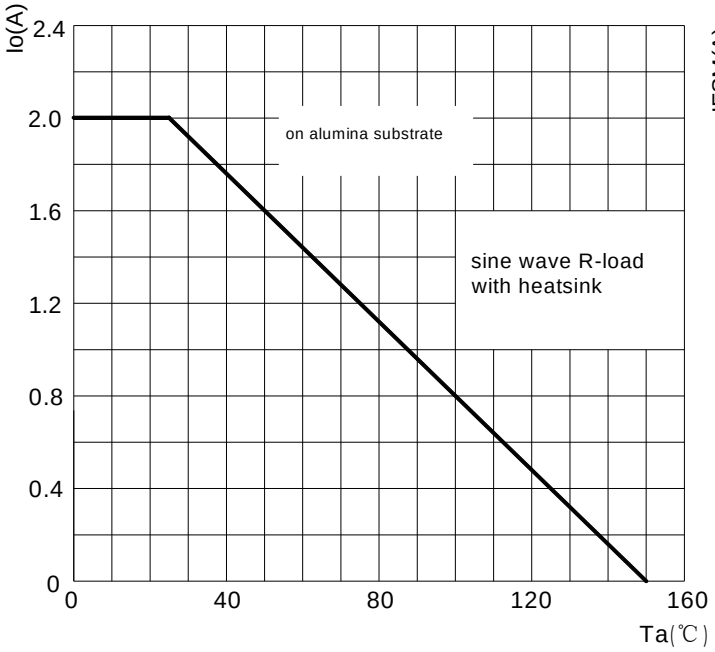


FIG.2: Forward Surge Current Capability

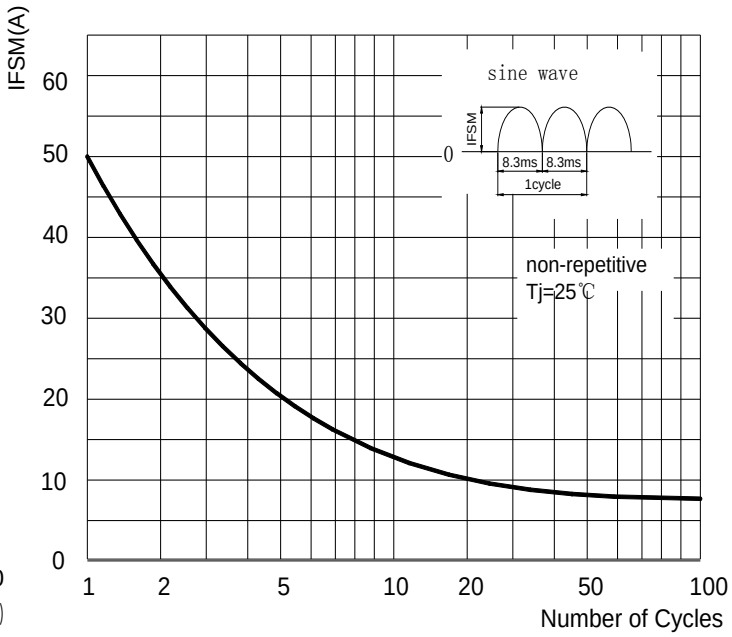


FIG.3: Forward Voltage

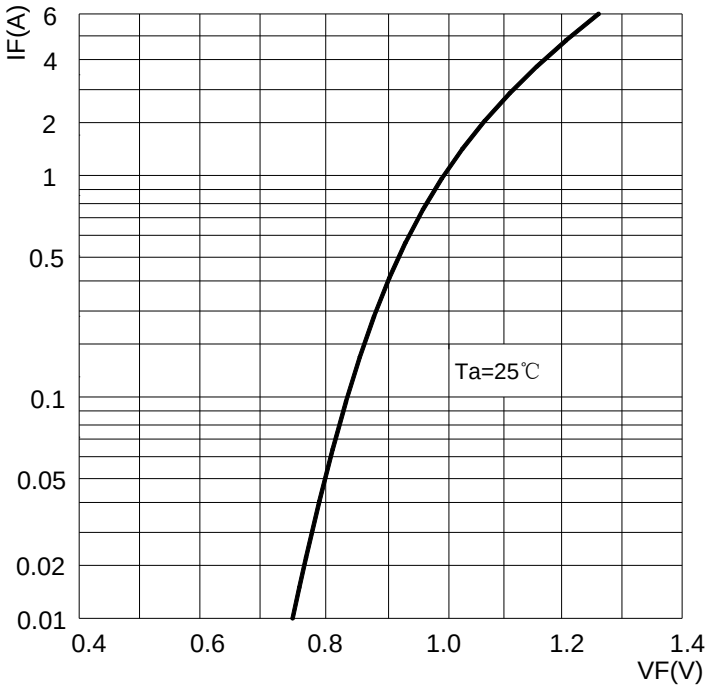
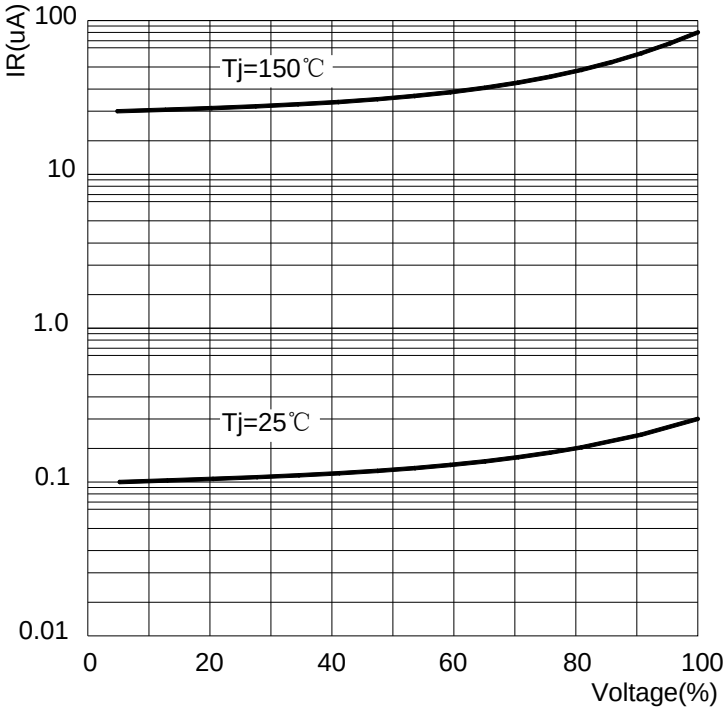


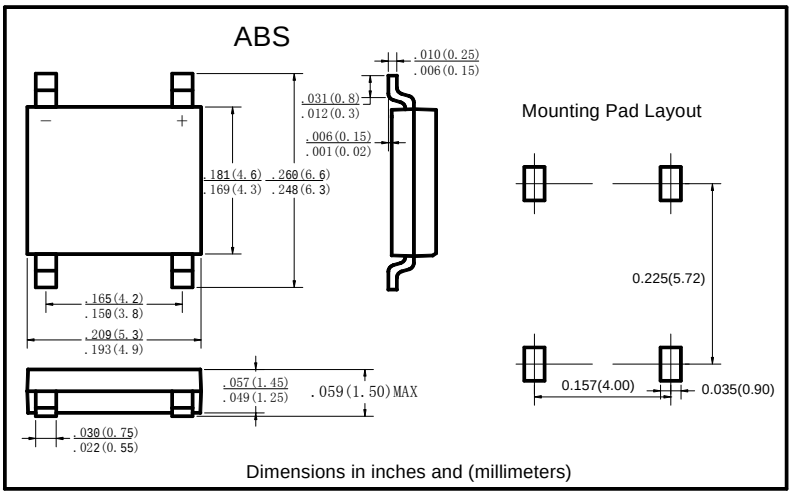
FIG.4: Typical Reverse Characteristics



■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ABS22 THRU ABS210	ABS	5000	10000	80000	13” reel

■ Outline Dimensions



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