

# ABS2 THRU ABS10 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

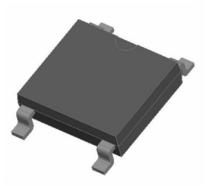
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

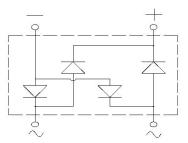
• Terminals: Tin plated leads, solderable per J-STD-

002 and JESD22-B102

• Polarity: As marked on body.

## ■ Maximum Ratings (Ta=25℃ Unless otherwise specified)





PARAMETER	Symbol	Unit	ABS2	ABS4	ABS6	ABS8	ABS10
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 Forward Current @Half-sine wave, Resistance load, Tc(Fig.1), On alumina substrate	lo	А			0.95		
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25°C	Ігѕм	А	30				
Current squared time @1ms≤t8.3≤ms Ta=25℃,Rating of per diode	l <sup>2</sup> t	A²s			3.7		
Thermal Resistance(Typical) @Between junction and ambient, On alumina substrate	R <sub>0J-A</sub>	°C/W	62.5				
Storage Temperature	Tstg	°C	-55 ~ +150				
Junction Temperature	Tj	°C	-55 ~ +150				

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

PARAMETER	Symbol	Unit	Conditions	ABS2	ABS4	ABS6	ABS8	ABS10
Peak Forward Voltage	VFM	V	I F =0.4A	1.0				
Peak Reverse Current	I <sub>RRM</sub>	μA	VR =V <sub>DC</sub> @Ta=25℃	10				
			VR =V <sub>DC</sub> @Ta=125℃	500				



sine wave

3ms 8.3n 1cycle

non-repetitive

50

Number of Cycles

100

**Tj=25**℃

**FSM** 

## Characteristics (Typical)

FIG.1: Io-Ta Curve

FIG.2: Forward Surge Current Capability

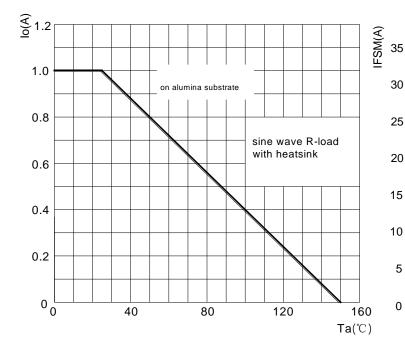


FIG.3: Forward Voltage

FIG.4: Typical Reverse Characteristics

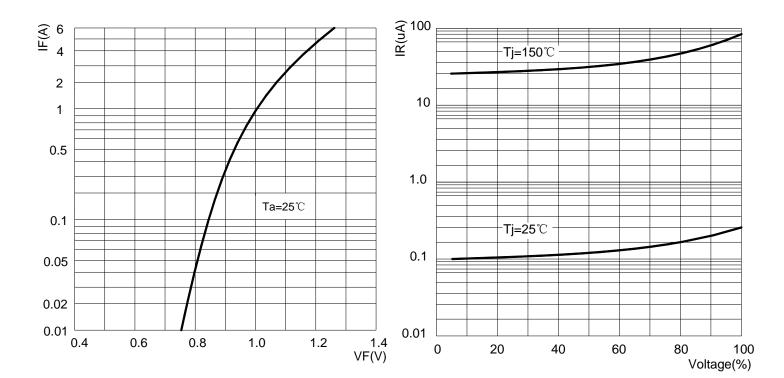
10

20

5

2

1

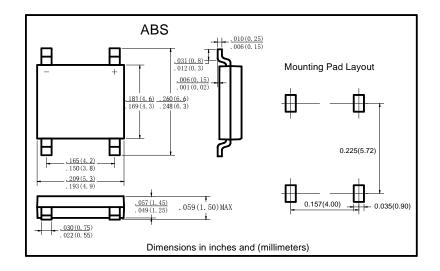




# Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
ABS2 THRU ABS10	ABS	5000	10000	80000	13" reel	

### Outline Dimensions





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