

SILICON BRIDGE RECTIFIERS

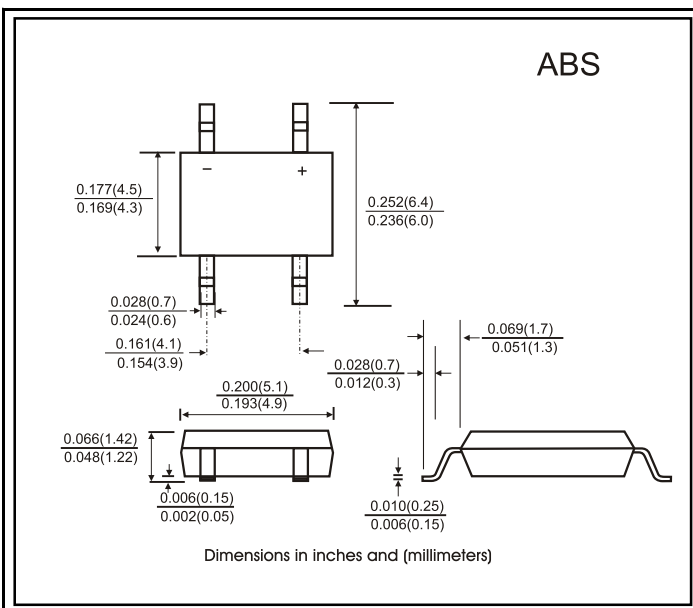
VOLTAGE RANGE: 200 --- 1000 V
CURRENT: 1.5 A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: ABS molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Weight: 0.0044ounce, 0.125 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	ABS15				
				02	04	06	08	10
Repetitive Peak Reverse Voltage	V_{RRM}	V		200	400	600	800	1000
Average Rectified Output Current	I_O	A	60Hz sine wave, R-load, $T_a=25^{\circ}\text{C}$	On alumina substrate				
Surge(Non-repetitive) Forward Current	I_{FSM}	A	60Hz sine wave, 1 cycle, $T_j=25^{\circ}\text{C}$	1.5				
Current Squared Time	I^2t	A ² S	1ms ≤ t < 8.3ms $T_j=25^{\circ}\text{C}$, Rating of per diode	40				
Storage Temperature	T_{stg}	°C		6.6				
Junction Temperature	T_j	°C		-55 ~ +125				
				-55 ~ +150				

Electrical Characteristics (T = 25°C Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	V_{FM}	V	$I_{FM}=0.7\text{A}$, Pulse measurement, Rating of per diode	0.95
Peak Reverse Current	I_{RRM}	μA	$V_{RM}=V_{RRM}$, Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-A}$	°C/W	Between junction and ambient, On alumina substrate	62.5
	$R_{\theta J-L}$		Between junction and lead	25

FIG1: Maximum Forward Current Derating Curve

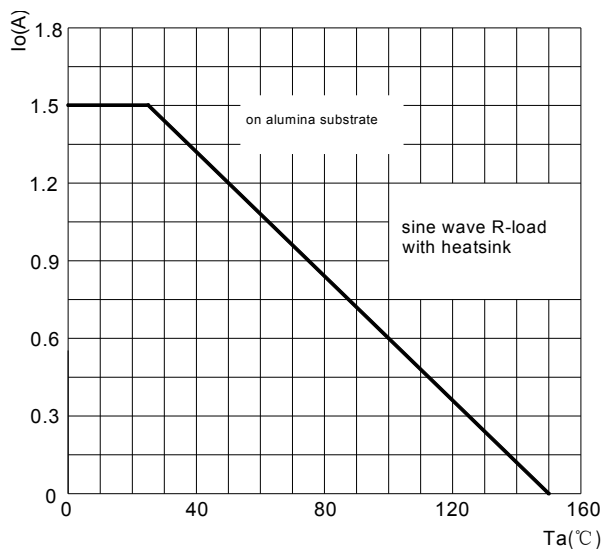


FIG2: Surge Forward Current Capacity

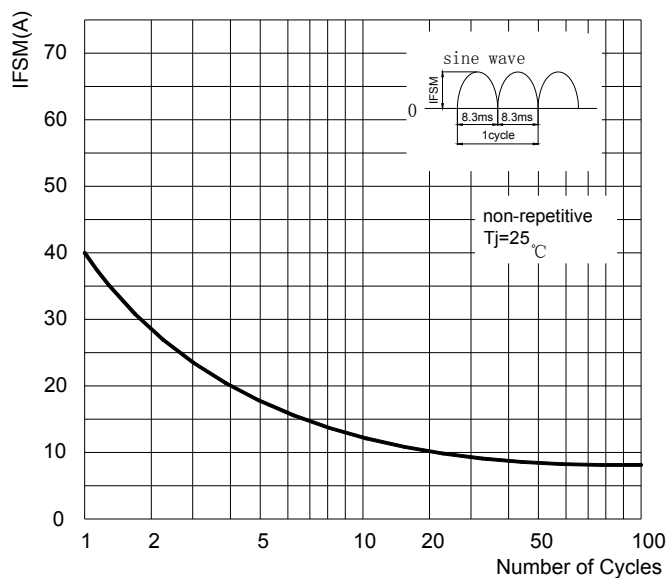


FIG3: Forward Voltage

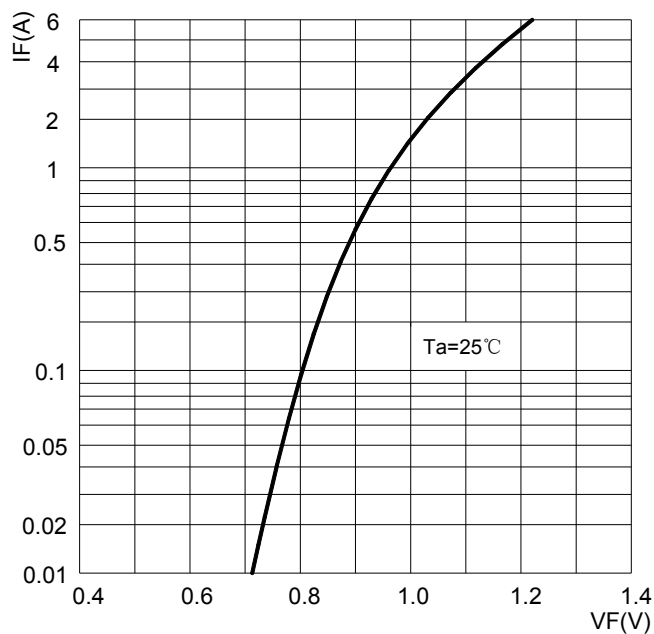


FIG4: Typical Reverse Characteristics

