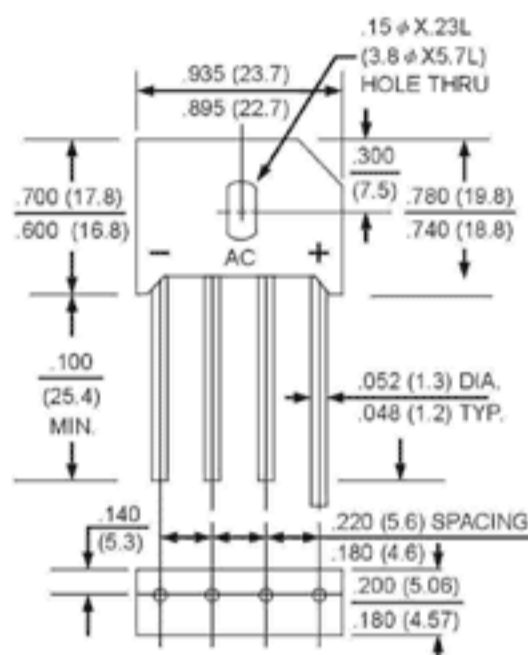


## SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts  
FORWARD CURRENT - 10/15/25/35 Amperes

### FEATURES

- Surge overload rating - 240~400 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability classification 94V-0
- Mounting Position: Any



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	TBU	TBU	TBU	TBU	TBU	TBU	TBU	UNIT	
		10005	1001	1002	1004	1008	1008	1010		
		15005	1501	1502	1504	1506	1508	1510		
		25005	2501	2502	2504	2506	2508	2510		
		35005	3501	3502	3504	3506	3508	3510		
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current @ $T_C=100^\circ C$ (with heatsink Note 2) (without heatsink)	$I_{AV}$	10 3.6							A	
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	$I_{FSM}$	10A 15A 25A 35A							240 240 350 400	A
Maximum Forward Voltage at 5.0/7.5/12.5/17.5A DC	$V_F$	1.0							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J=25^\circ C$ @ $T_J=125^\circ C$	$I_R$	5.0 500							$\mu A$	
$I^2 t$ Rating for fusing ( $t < 8.3ms$ )	$I^2 t$	200							A <sup>2</sup> S	
Typical Junction Capacitance per element (Note 1)	$C_J$	70							pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.2							$^\circ C/W$	
Operating Temperature Range	$T_J$	-40 to +125							$^\circ C$	
Storage Temperature Range	$T_{STG}$	-40 to +125							$^\circ C$	

NOTES: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.  
2. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.