20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A. TELEPHONE: (973) 376-2922

(212) 227-6005

FAX: (973) 376-8960

RBV3500 - RBV3510

PRV: 50 - 1000 Volts

lo: 35 Amperes

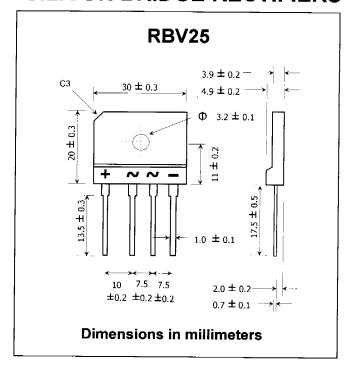
FEATURES:

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Rated isolation-voltage 2000 VAC
- * Ideal for printed circuit board
- * Very good heat dissipation
- * Pb / RoHS Free

MECHANICAL DATA:

- Case: Reliable low cost construction utilizing molded plastic technique
- * Epoxy: UL94V-0 rate flame retardant
- * Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight: 8.17 grams (Approximaly)

SILICON BRIDGE RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING		SYMBOL	RBV 3500	RBV 3501	RBV 3502	RBV 3504	RBV 3506	RBV 3508	RBV 3510	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current Tc = 55°C		IF(AV)	35							Α
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)		Ігѕм	400						Α	
Current Squared Time at t < 8.3 ms.		l ² t	660						A ² S	
Maximum Forward Voltage per Diode at IF = 17.5 A , Ta = 25 ° C		\ /-				1.1				
	at IF = 17.5 A , Ta = 125 ° C	V F				0.9				V
Maximum DC Reverse Current	Ta = 25 °C	İR				10		-		μА
at Rated DC Blocking Voltage	IR(H)	200							μA	
Typical Thermal Resistance (Note 1)		R0JC	1.5							°C/W
Operating Junction Temperature Range		TJ	- 40 to + 150							°C
Storage Temperature Range		Тѕтс	- 40 to + 150						°C	

Note:

Quality Semi-Conductors

^{1.} Thermal Resistance from junction to case with units mounted on heatsink.

RATING AND CHARACTERISTIC CURVES (RBV3500 - RBV3510)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

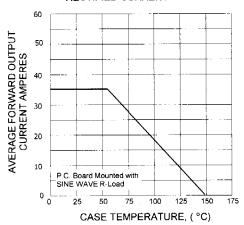


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

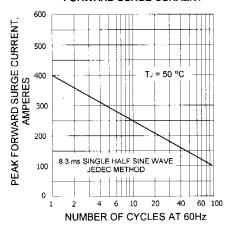


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

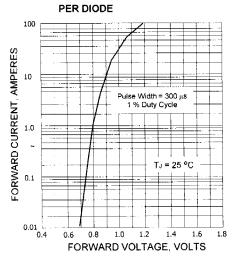


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

