



RBV2500D - RBV2510D \$

SILICON BRIDGE RECTIFIERS

RBV25

 30 ± 0.3

СЗ

20 ± 0.3

± 0.3

13.5

+

10 7.5 7.5

±0.2

 $\pm 0.2 \pm 0.2$

Dimensions in millimeters

3.9 ± 0.2

4.9 ± 0.2

arnothing 3.2 \pm 0.1

 1 ± 0.2

.0 ± 0.1

 2.0 ± 0.2

0.7 ± 0.1

± 0.5

17.5

PRV : 50 - 1000 Volts

lo: 25 Amperes

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * High case dielectric strength of 2000 V $_{\text{DC}}$
- * Ideal for printed circuit board
- * Very good heat dissipation

MECHANICAL DATA :

- * Case : Reliable low cost construction utilizing molded plastic technique
- * Epoxy : UL94V-O rate flame retardant
- Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight: 7.7 grams

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 2500D	RBV 2501D	RBV 2502D	RBV 2504D	RBV 2506D	RBV 2508D	RBV 2510D	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Current Tc = 55° C	F(AV)	25							Amps.
Peak Forward Surge Current Single half sine wave									
Superimposed on rated load (JEDEC Method)	IFSM	400							Amps.
Current Squared Time at t < 8.3 ms.	l ² t	375							A ² S
Maximum Forward Voltage per Diode at IF = 25 Amps.	Vf	1.1							Volts
Maximum DC Reverse Current Ta = 25 °C	IR	10							μA
at Rated DC Blocking Voltage Ta = $100 \degree C$	IR(H)	200							μA
Typical Thermal Resistance (Note 1)	RθJC	1.2						°C/W	
Operating Junction Temperature Range	TJ	- 40 to + 150						°C	
Storage Temperature Range	Тѕтс	- 40 to + 150						°C	

Notes :

1. Thermal Resistance from junction to case with units mounted on a 5" x 6" x 4.9" (12.8cm.x 15.2cm.x 12.4cm.) AL-Finned Plate





