



RBV5000 - RBV5010

PRV : 50 - 1000 Volts

Io: 50 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_{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%.

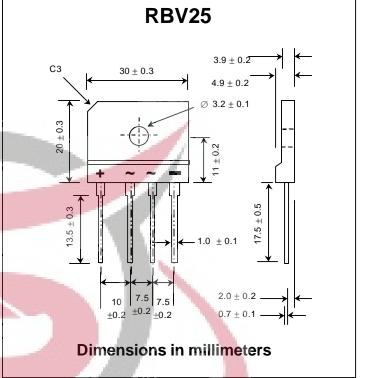
RATING	SYMBOL	RBV 5000	 RBV 5001	RBV 5002	RBV 5004	RBV 5006	RBV 5008	RBV 5010	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Current Tc = 55°C	IF(AV)	50						Amps.	
Peak Forward Surge Current Single half sine wave									
Superimposed on rated load (JEDEC Method)	I _{FSM}	400							Amps.
Current Squared Time at t < 8.3 ms.	l ² t	660						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 °C	I _{R(H)}	200							μA
Typical Thermal Resistance (Note 1)	R _θ JC	1.5						∘C/W	
Operating Junction Temperature Range	TJ	10						°C	
Storage Temperature Range	Тѕтс	- 40 to + 150						°C	

Notes :



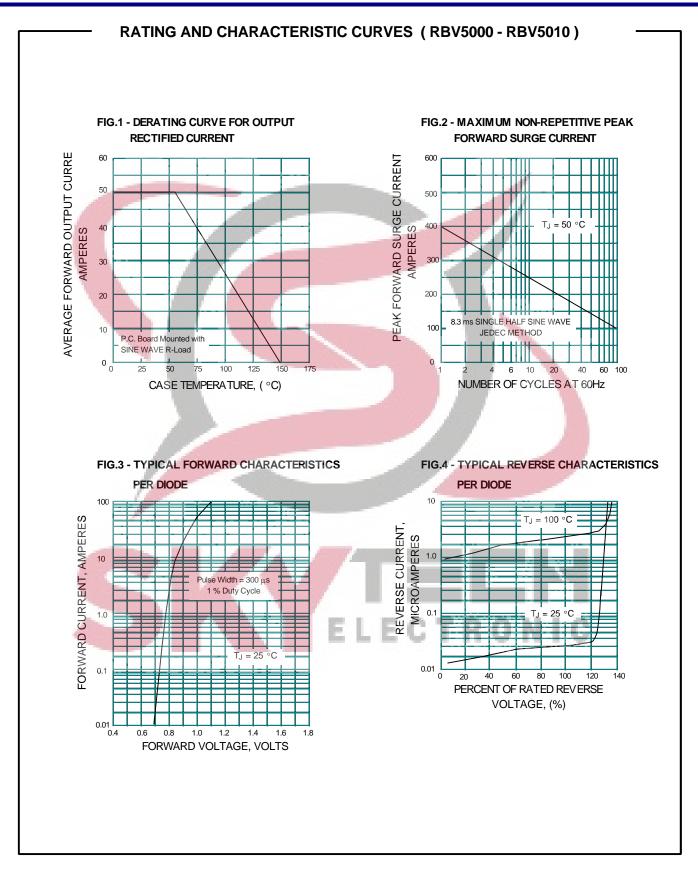
UPDATE : AUGUST 3, 1998

SILICON BRIDGE RECTIFIERS









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