

RBV401 - RBV406

PRV : 100 - 600 Volts

Io : 4.0 Amperes

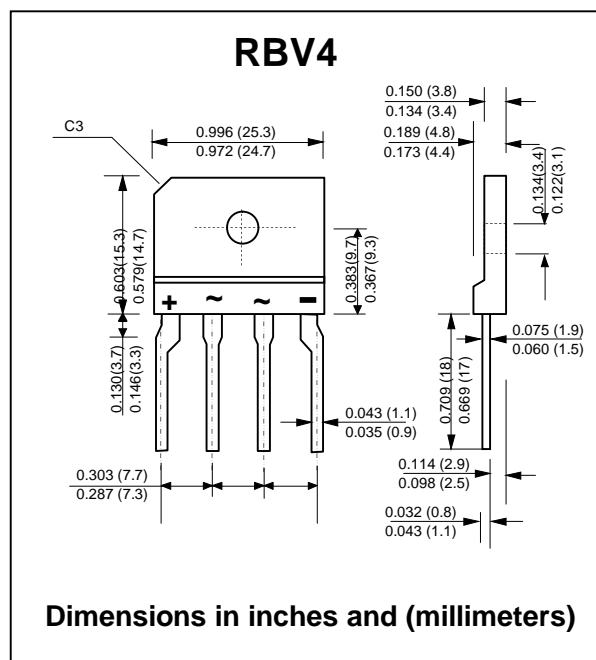
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * 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-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 : 4.28 grams

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	RBV401	RBV402	RBV404	RBV406	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	200	400	600	V
Maximum Reverse Voltage	V_R	100	200	400	600	V
Maximum Average Forward Rectified Current $T_c=50^\circ\text{C}$	$I_{F(AV)}$	4.0				A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sinwave, Single Shot)	I_{FSM}	80				A
Maximum Forward Voltage per Diode at $I_F = 2.0 \text{ A}$	V_F	1.05	1.1			V
Maximum Reverse Current at Reverse Voltage	I_R	10				μA
Maximum Reverse Current at Reverse Voltage $T_a = 100^\circ\text{C}$	$I_{R(H)}$	100				μA
Thermal Resistance, Junction to Case	$R_{\theta JC}$	5.0				$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	- 40 to + 150				$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 40 to + 150				$^\circ\text{C}$

RATING AND CHARACTERISTIC CURVES (RBV401 THRU RBV406)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

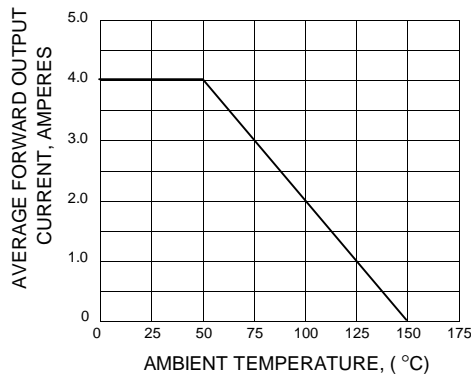


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

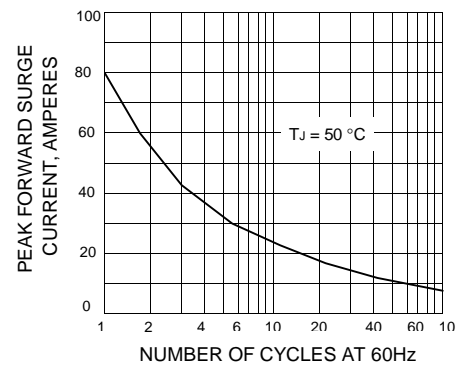


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

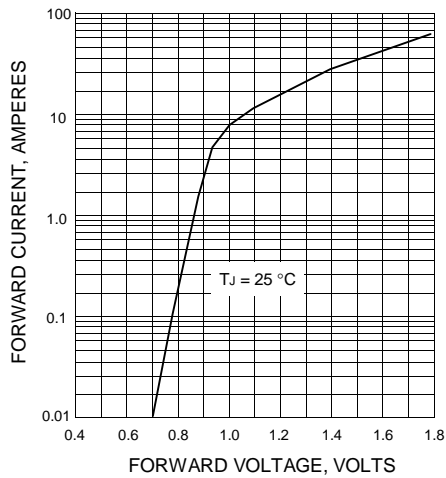


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

