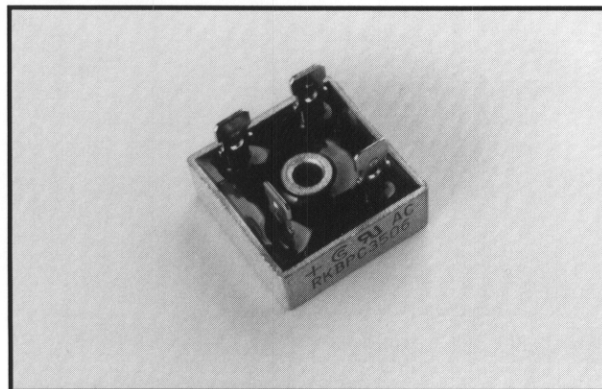


RKBPC35005 Thru RKBPC3510



35 AMP FAST RECOVERY BRIDGE RECTIFIER



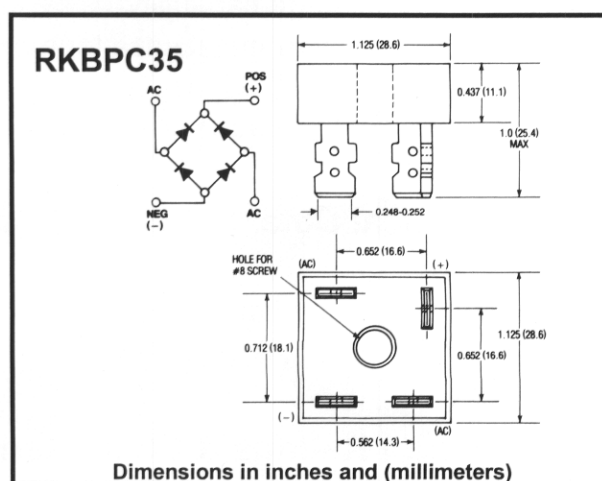
FEATURES

- Rating to 1000V PRV
- High efficiency
- 400 Amperes surge capability
- Electrically isolated metal case for maximum heat dissipation
- UL recognized: File #E106441

Mechanical Data

- Case: Metal
- Mounting: through hole for #8 screw
- Weight: 1.1 ounce, 31.6 grams

Outline Drawing



Maximum Ratings & Characteristics

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

		RKBPC 35005	RKBPC 3501	RKBPC 3502	RKBPC 3504	RKBPC 3506	RKBPC 3508	RKBPC 3510	Units
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 Output Current @ $T_C = 55^\circ C$	$I_{(AV)}$	35.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	400							A
Maximum DC Forward Voltage Drop per Element At 17.5A DC	V_F	1.3							V
Maximum Reverse Current At Rated DC Blocking Voltage per Element	I_R	10 1							μA mA
Maximum Recovery Time (Note 1)	t_{rr}	200			300		500		nS
$I^2 t$ Rating for Fusing ($t < 8.3ms$)	$I^2 t$	664							$A^2 S$
Typical Thermal Resistance (Note 2)	R_{THJA}	2.5							$^\circ C/W$
Operating Temperature Range	T_J	-55 to +125							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

Note: 1. Reverse recovery test conditions: $I_F = 0.5A$, $I_R = -1.0A$, $I_{RR} = -0.25A$
 2. Mounted on 11.8 in² X 0.06 in thick (300mm² X 1.5mm thick) copper plate