SINGLE-PHASE BRIDGE RECTIFIER

KBPC50005 THRU KBPC5010 (MB5005 THRU MB5010)

FEATURES

Low cost

High forward surge current capability low thermal resistance.

High isolation voltage from case to lugs.

High temperature soldering guaranteed:

260 /10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

Case: Molded body

Terminal: Plated 0.25" (6.35mm) lug. Polarity: Polarity symbols marked on case.

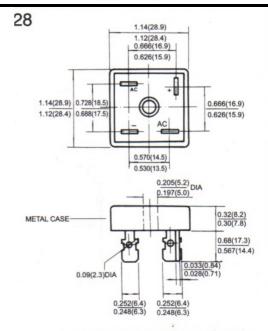
Mounting: Thru hole for #10 screw, 20 in - lbs. Torque max

Weight: 0.84ounce, 24gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%



MB-15N/25N/35N/40/50

For capacitive load derate current by 20%									
	SYMBOLS	KBPC 50005	5001	KBPC 5002	KBPC 5004	5006	5008	5010	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}								Volts
Maximum RMS Voltage	V_{RMS}								Volts
Maximum DC Blocking Voltage	V_{DC}								Volts
Maximum Average Forward Rectified Output Current, at $T_C = 50$ (Note1, 2)	$I_{(AV)}$								Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	${ m I}_{ m FSM}$								Amps
Rating for Fusing (t<8.3ms)	I^2t								A^2s
Maximum Instantaneous Forward Voltage Drop per bridge element at 25A	V_{F}								Volts
Maximum DC Reverse Current at rated $T_A = 25$ DC blocking voltage per element T_A	I_R								Amp mAmp
Isolation Voltage from case to lugs	V_{ISO}								V_{AC}
Typical Thermal Resistance (Note 1, 2)	R_{JC}								/W
Operating Temperature Range	T_{J}	(-65 to +150)							
Storage Temperature Range	T_{STG}			(-(65 to +15	50)			