

SINGLE-PHASE BRIDGE RECTIFIER
MB3505 THRU MB3510
KBPC35005 THRU KBPC3510

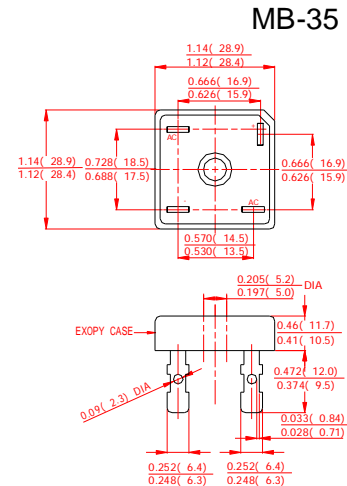
VOLTAGE RANGE 50 to 1000 Volts
CURRENT 35 Amperes

FEATURES

- l Low cost
- l This series is UL recognized under component index, file number E127707
- l High forward surge current capability
- l Ideal for printed circuit board
- l High isolation voltage from case to leads
- l High temperature soldering guaranteed: 260°C/10 second, at 5 lbs. (2.3kg) tension.

MECHANICAL DATA

- l Case: Molded plastic body
- l Terminal: Plated 0.25" (6.35mm) lug.
- l Polarity: Polarity symbols marked on case
- l Mounting: Thru hole for #10 screw, 20 in.-lbs torque max.
- l Weight: 1.02 ounce, 29 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL 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%.

	SYMBOLS	MB3505 KBPC35005	MB351 KBPC3501	MB352 KBPC3502	MB354 KBPC3504	MB356 KBPC3506	MB358 KBPC3508	MB3510 KBPC3510	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	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	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current, at $T_C=50^\circ\text{C}$ (Note 1,2)	$I_{(AV)}$	35							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							Amps
Rating for Fusing($t < 8.3\text{ms}$)	I^2t	664							A^2S
Maximum Instantaneous Forward Voltage at 17.5A	V_F	1.1							Volts
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^\circ\text{C}$	10							μAmps
	$T_A=125^\circ\text{C}$	1.0							mAmps
Isolation Voltage from case to lugs	V_{ISO}	2500							V_{AC}
Typical Thermal Resistance (Note 1,2)	$R_{\theta JC}$	2.0							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

NOTES:

1. Unit mounted on 9"×3.5"×4.6"(23×9×11.8mm) Al. finned plate.
2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

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RATINGS AND CHARACTERISTIC CURVES MB3505 THRU MB3510

