

KBPC35005 THRU KBPC3510

SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 35.0 Ampere

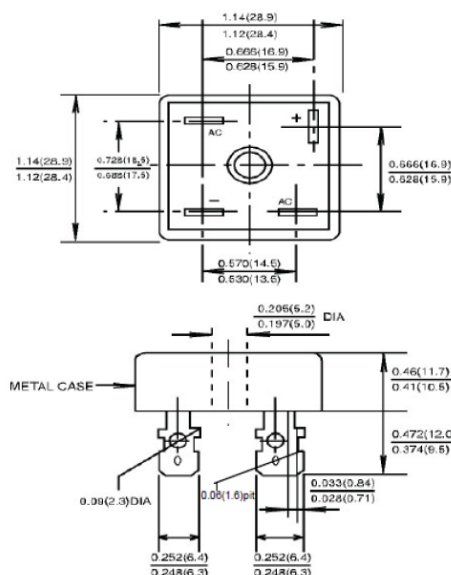
FEATURES

- ◆ High forward surge current capability.
- ◆ Integrally molded heatsink provide very low thermal resistance.
- ◆ High isolation voltage from case to lugs.
- ◆ High temperature soldering guaranteed: 260°C/10 second, at 5 lbs. (2.3kg) tension.

Mechanical Data

- ◆ Case: Metal case.
- ◆ 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: 1.02 ounce, 29gram.

KBPC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	UNIT	
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 Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$	I_R	5.0							μAmps
	$T_A=125^\circ\text{C}$		0.5							mAmps
Isolation Voltage from case to lugs	V_{ISO}	2500							V_{AC}	
Typical Thermal Resistance (Note 1,2)	$R_{\theta JL}$	2.0							$^\circ\text{C}/\text{W}$	
Operating Temperature Range	T_J	-65 to +150							$^\circ\text{C}$	
Storage Temperature Range	T_{stg}	-65 to +150							$^\circ\text{C}$	

Note: 1. Unit mounted on 9" × 3.5" × 4.6" thick (23×9×11.8mm) Al. plate.

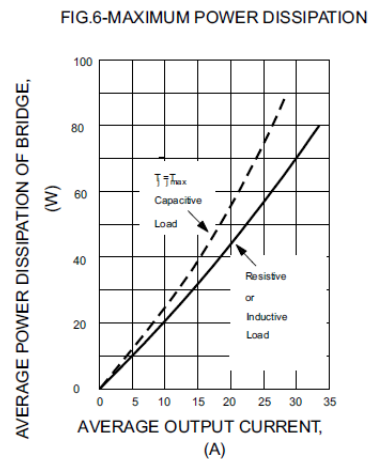
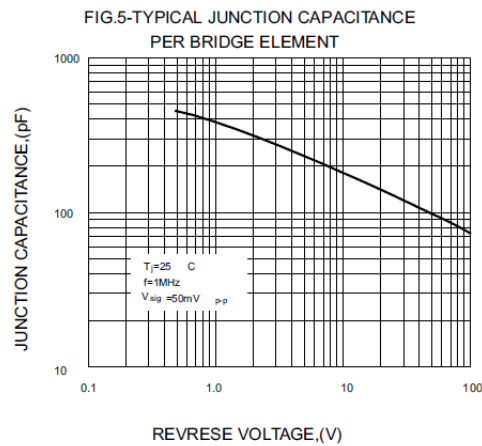
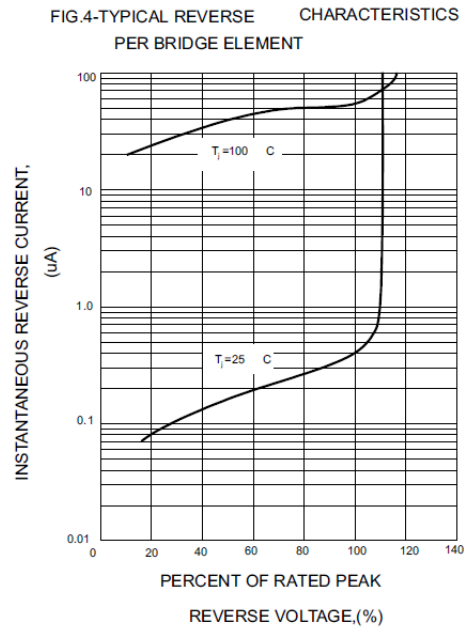
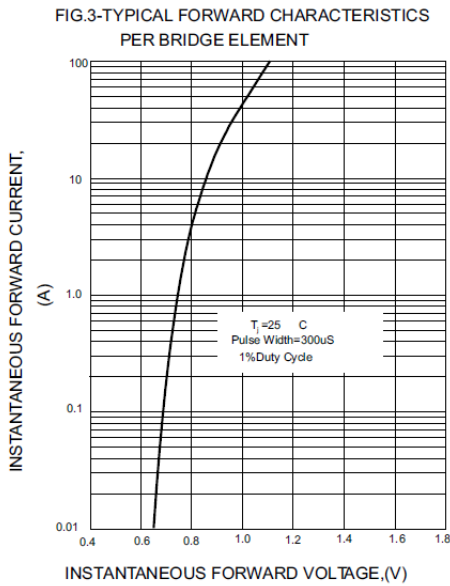
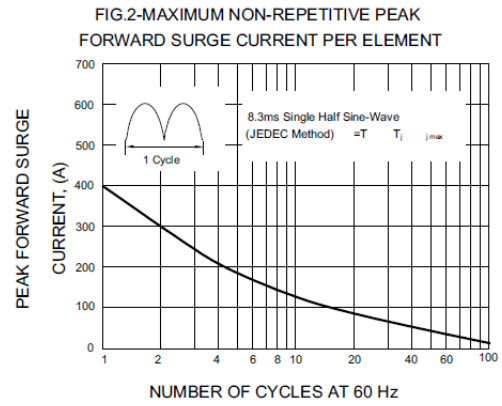
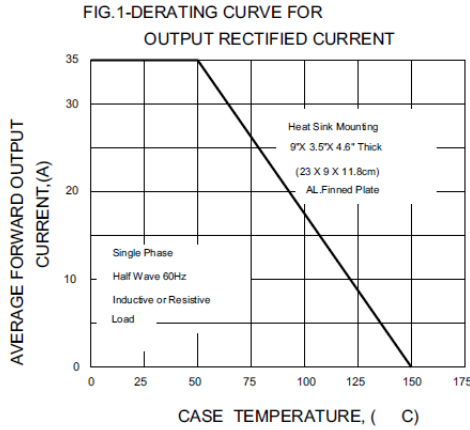
2. Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency with #10 screw.

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RATING AND CHARACTERISTIC CURVES KBPC35005 THRU KBPC3510



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.