

# SKBPC3508 THRU SKBPC3516

## THREE-PHASE BRIDGE RECTIFIER

VOLTAGE RANGE 800 to 1600 Volts    CURRENT 35 Ampere

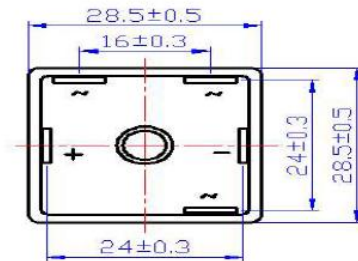
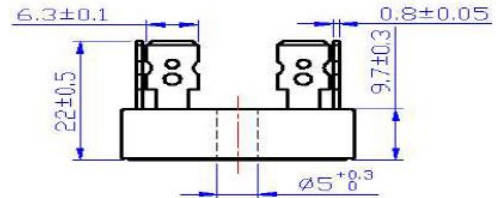
### FEATURES

- Integrally molding heatsinks provide very low thermal resistance for maximum heat dissipation
- Surge overload rating to 400 amperes
- High temperature soldering guaranteed:260°C/10 second, at 5 lbs. (2.3kg) tension.

### MECHANICAL DATA

- Case: Epoxy, molded plastic with heatsink integrally mounted in the bridge encapsulation.
- Mounting Position: Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency
- Mounting Torque: 20 in. lbs max.
- Weight:0.706 ounce, 20 grams

### SKBPC



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%.

	SYMBOLS	SKBPC3508	SKBPC3512	SKBPC3516	UNIT
Peak Repetitive Reverse Voltage	$V_{RRM}$	800	1200	1600	Volts
Working Peak Reverse Voltage	$I_{RWM}$	800	1200	1600	Volts
Maximum DC Blocking Voltage	$V_{DC}$	800	1200	1600	Volts
Maximum Average Forward Rectified Output Current, at $T_C=55^\circ\text{C}$ (Note 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<8.3ms)	$I^2T$	664			A <sup>2</sup> S
Maximum Instantaneous Forward Voltage drop per bridge element at 17.5A	$V_F$	1.2			Volts
Maximum DC Reverse Current at rated DC blocking voltage per element $T_A=25^\circ\text{C}$	$I_R$	5.0			uAmps
Isolation Voltage from case to leads	$V_{ISO}$	2500			VAC
Typical Thermal Resistance per Element	$R_{\theta JC}$	2.2			°C/W
Operating Temperature Range	$T_J$	-55 to + 150			°C
Storage Temperature Range	$T_{STG}$	-55 to + 150			°C

### NOTES:

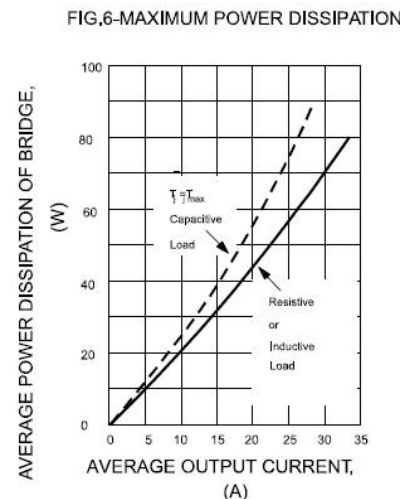
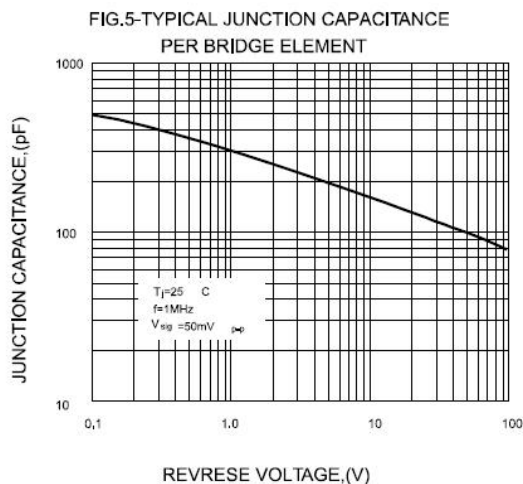
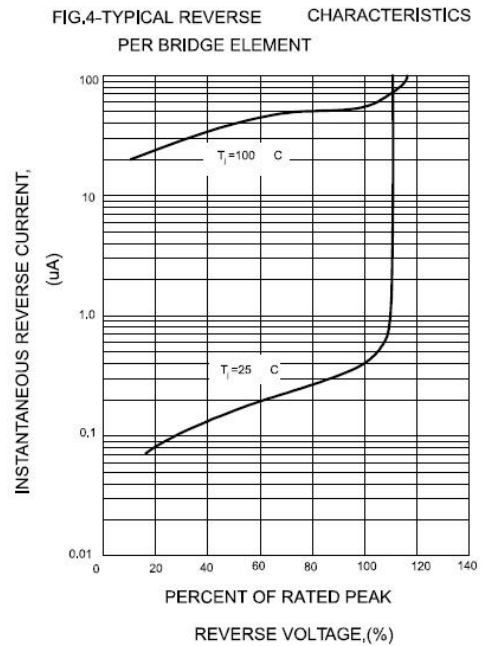
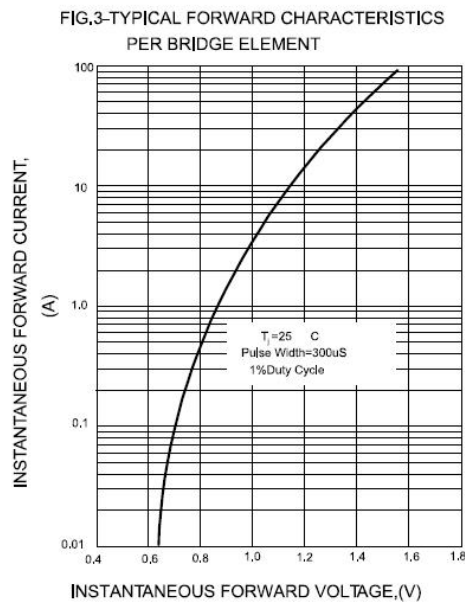
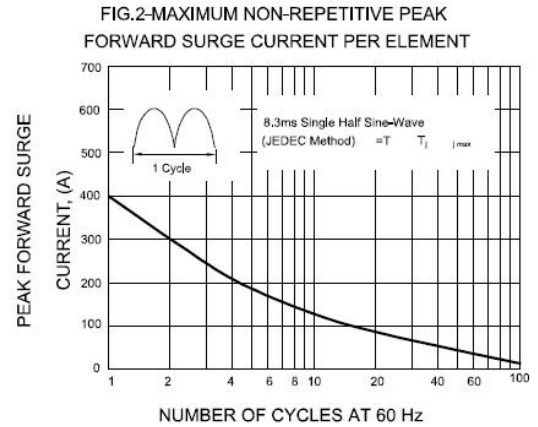
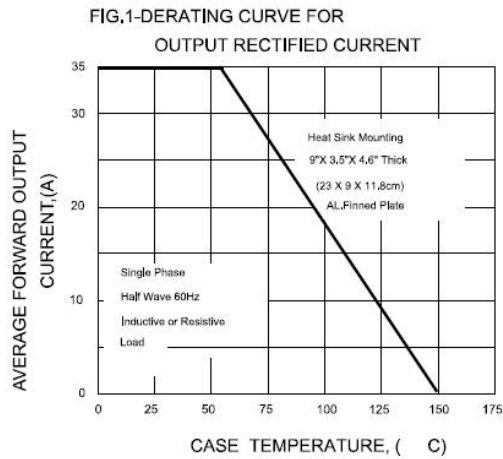
1.Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

2.Unit mounted on 11.8'' x 11.8'' x 0.6'' thick (300x300x15mm) Copper plate.

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