

KBPC SILICON BRIDGE RECTIFIERV

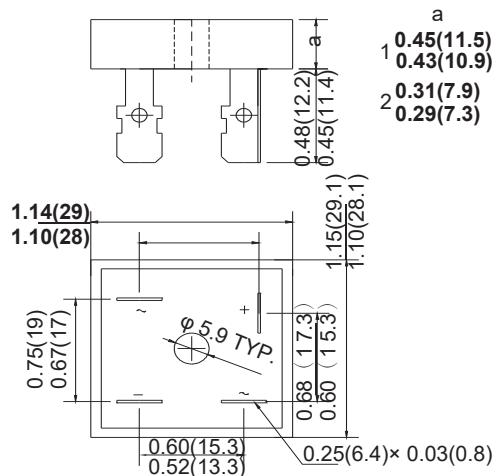
REVERSEVOLTAGE:50 --- 1000V CURRENT: 50.0A

FEATURES

- Molded case maximum heat dissipation
- Surge overload ratings -400 Amperes
- low forward voltage drop

MECHANICAL DATA

- Case style: KBPC plastic molded
- Mounting: thru hole for # 8 screw mounting
- Polarity: As marked
- Epoxy: ul94v-0 rate flame retardant


MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

MDD Catalog Number	SYMBOLS	KBPC 50005W	KBPC 5001W	KBPC 5002W	KBPC 5004W	KBPC 5006W	KBPC 5008W	KBPC 5010W	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 output rectified current at T _c =50°C (Note 1,2)	I _(AV)					50			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					500.0			Amps
Maximum instantaneous forward voltage drop per bridge element at 25A	V _F				1.1				Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R				10				µA
					500				mA
Typical junction capacitance(Note1)	C _J				300				pF
Typical Thermal Resistance (Note 2)	R _{θJA}				2.5				k/W
Operating and storage temperature range	T _J ,T _{STG}				-55 to +125				°C

NOTES:

1. Measured at 1MHz applied reverse voltage of 4.0v D.C
2. Thermal resistance junction to case mounted on heatsink.

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

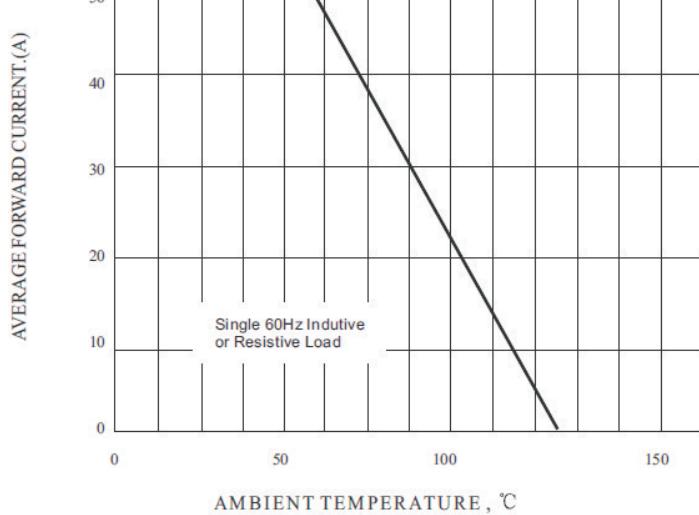


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

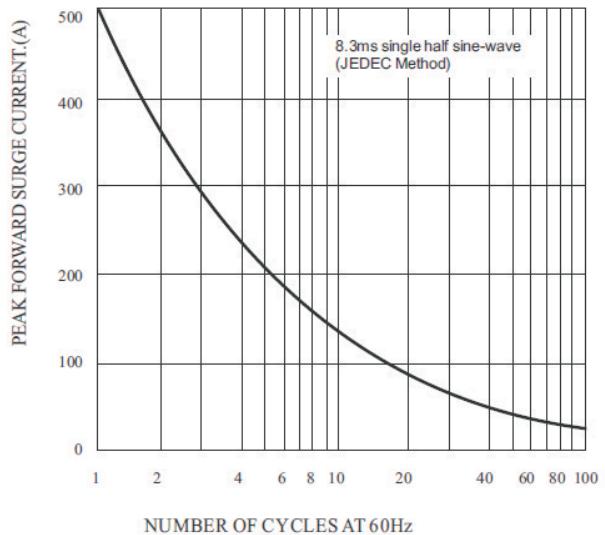


FIG.3-TYPICAL FORWARD CHARACTERISTICS

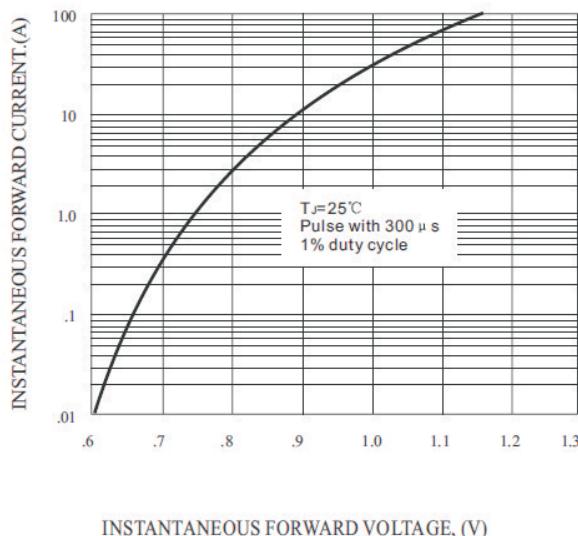


FIG.4-TYPICAL REVERSE CHARACTERISTICS

