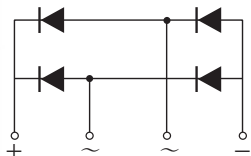
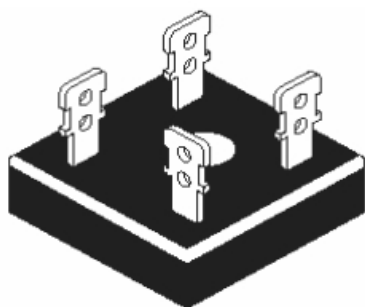


Glass Passivated Bridge Rectifiers

KBPC



Features

- Surge overload 500 Amperes peak
- Low forward voltage drop
- Mounting Position : Any
- Electrically isolated base -2000 Volts
- Solderable 0.25" FAST ON terminals
- Materials used carries U/L recognition

Applications

- Switching Power Supply
- Home Appliances, Office Devices
- Industrial Auto-equipments

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	KBPC5010	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Average Rectified Output Current	I_o	50.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	500	A
I^2t rating for fusing (1ms < t < 8.3ms)	I^2t	1037	A ² S
Maximum Forward Voltage Drop Per Element at 25A Peak	V_F	1.1	V
Maximum Reverse Current at Rate DC Blocking Voltage Per Element @T _J =25 °C	I_R	10	uA
Operating and Storage Temperature Range	T _J , T _{stg}	-55 ~ +150	°C
Junction-to-case thermal resistance	R _{thJC}	1.5	°C/W

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

FIG.1-MAXIMUM FORWARD SURGE CURRENT

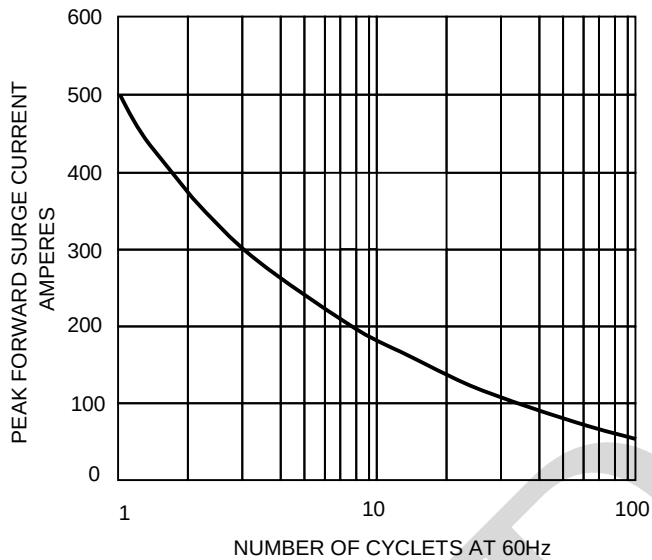


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

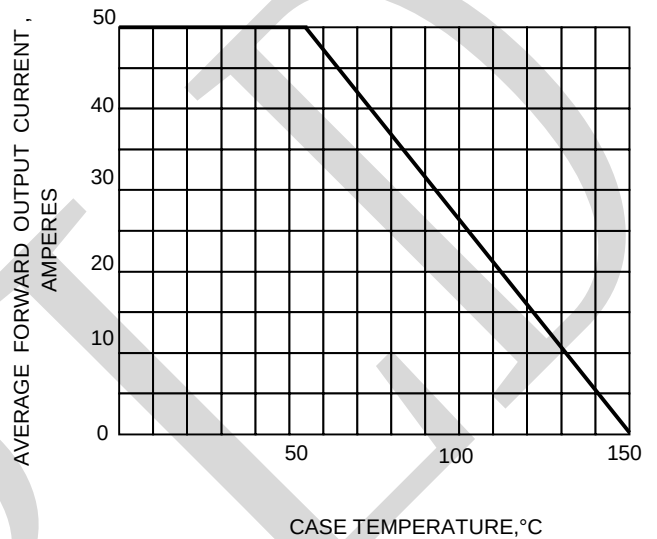


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

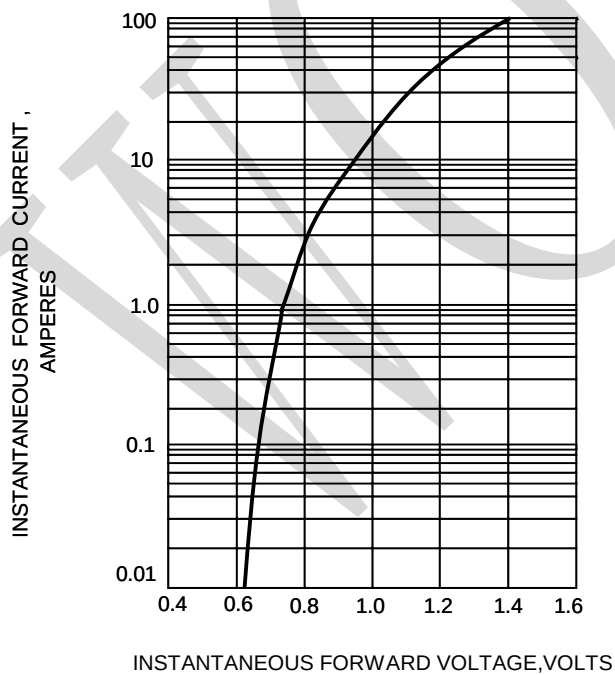
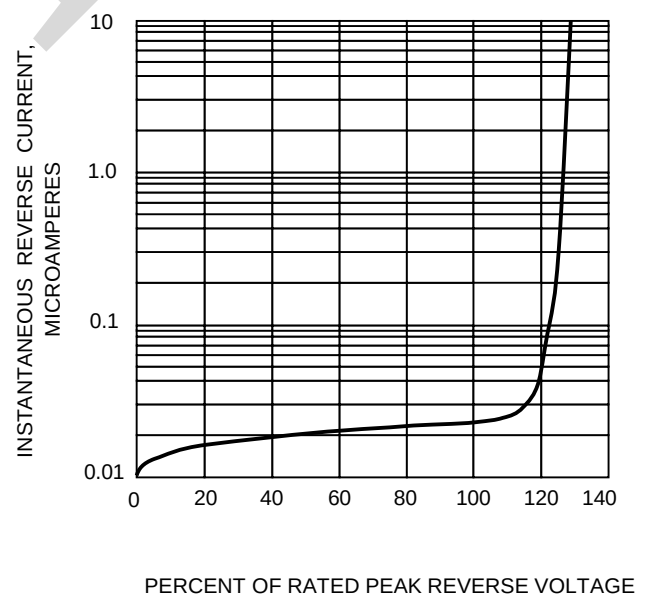
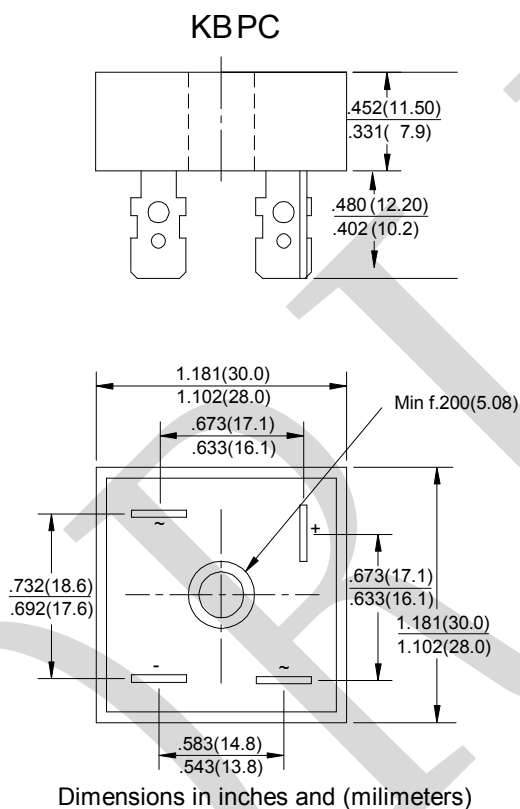


FIG.4-TYPICAL REVERSE
CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

Note:unit mm



Description of model and identification

KBPC	50	10
Package type	Current	Voltage
	50=50A	10=1000V