Glass Passivated
Bridge Rectifier

Features

- Surge overload -240~500 Amperes peak
- Low forward voltage drop
- Electrically isolated base -2000 Volts
- Solderable 0.25" FAST ON terminals
- Materials used carries UL recognition

Mechanical Data

Mounting Position : Any
Reverse Voltage : 50 to 1000 Volts
Forward Current : 10/15/25/35/50 Ampere

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%.

Part Number	Max. Recurrent Peak Reverse Voltage	Max. RMS Bridge Input Voltage	Max. Average Forward Rectified Output Current @T_C = 55°C	Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load
	V_{RRM}	V_{RMS}	$I_{(AV)}$	I_{FSM}
KBPC3504	400	280	35	400
KBPC1508	800	560	15	300
KBPC15005	50	35	15	300
KBPC3502	200	140	35	400
KBPC3510	1000	700	35	400
KBPC1510	1000	700	15	300
KBPC1501	100	70	15	300
KBPC2504	400	280	25	400
KBPC5006	600	420	50	500
KBPC3506	600	420	35	400
KBPC5002	200	140	50	500
KBPC25005	50	35	25	400
KBPC3501	100	70	35	400
KBPC1506	600	420	15	300
KBPC5010	1000	700	50	500
KBPC50005	50	35	50	500
KBPC2502	200	140	25	400
KBPC1504	400	280	15	300
KBPC2508	800	560	25	400

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Characteristics	Symbol	Values	Unit
Max. Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0A Peak	V_F	1.1	V
Max. Reverse Current at Rate DC Blocking Voltage Per Element @ T_J = 25°C	I_R	10	µA
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Ratings and Characteristic Curves

FIG.1-MAXIMUM FORWARD SURGE CURRENT

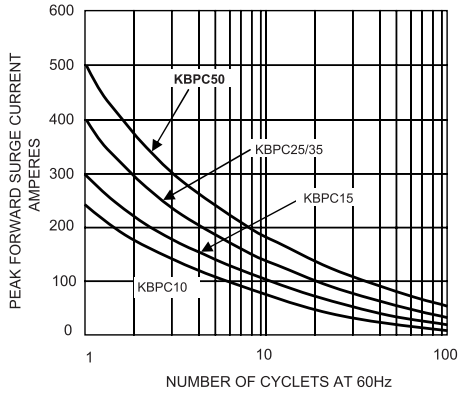


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

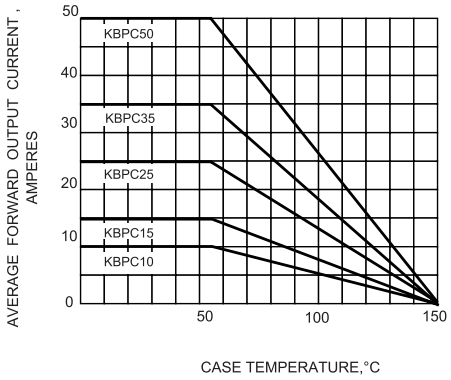


FIG.3-TYPICAL FORWARD CHARACTERISTICS

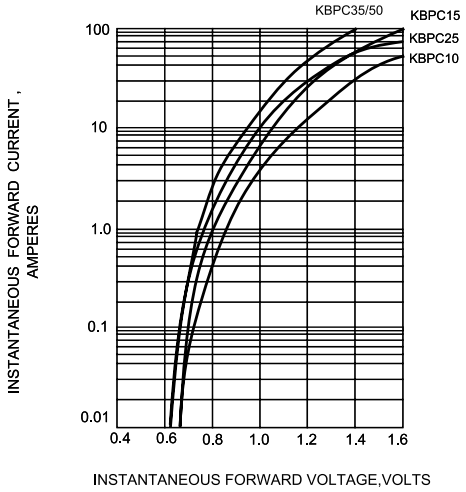
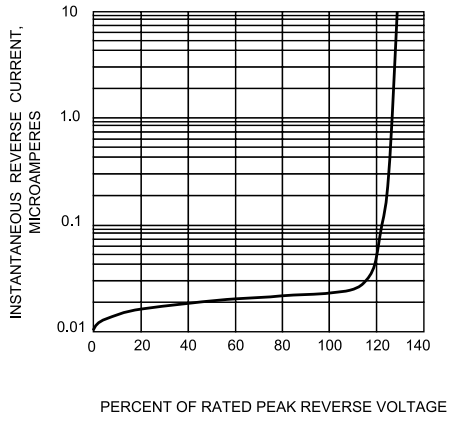


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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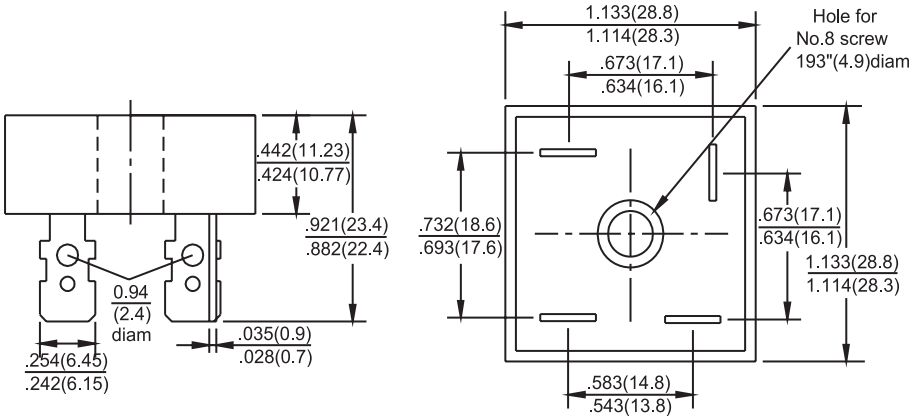
Dimensions:

KBPC



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Glass Passivated Bridge Rectifiers, 35A 400V	KBPC3504
Glass Passivated Bridge Rectifiers, 15A 800V	KBPC1508
Glass Passivated Bridge Rectifiers, 15A 50V	KBPC15005
Glass Passivated Bridge Rectifiers, 35A 200V	KBPC3502
Glass Passivated Bridge Rectifiers, 35A 1000V	KBPC3510
Glass Passivated Bridge Rectifiers, 15A 1000V	KBPC1510
Glass Passivated Bridge Rectifiers, 15A 100V	KBPC1501
Glass Passivated Bridge Rectifiers, 25A 400V	KBPC2504
Glass Passivated Bridge Rectifiers, 50A 600V	KBPC5006
Glass Passivated Bridge Rectifiers, 35A 600V	KBPC3506
Glass Passivated Bridge Rectifiers, 50A 200V	KBPC5002
Glass Passivated Bridge Rectifiers, 25A 50V	KBPC25005
Glass Passivated Bridge Rectifiers, 35A 100V	KBPC3501
Glass Passivated Bridge Rectifiers, 15A 600V	KBPC1506
Glass Passivated Bridge Rectifiers, 50A 1000V	KBPC5010
Glass Passivated Bridge Rectifiers, 50A 50V	KBPC50005
Glass Passivated Bridge Rectifiers, 25A 200V	KBPC2502
Glass Passivated Bridge Rectifiers, 15A 400V	KBPC1504
Glass Passivated Bridge Rectifiers, 25A 800V	KBPC2508