KBPC15,25,35 SERIES

HIGH CURRENT 15, 25, 35 AMPS SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

FEATURES

* Metal case with an electrically isolated mylar
* Rating to 1,000V PRV
* High efficiency
* Mounting: thru hole for # 10 screw
* High temperature soldering guaranteed: 260℃/10 seconds at 5 lbs., (2.3 kg) tension
* Terminals solderables per MIL – STD – 202. method 208
* Isolated voltage from case to lead over 2000 volts

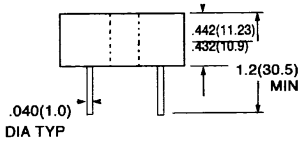
VOLTAGE RANGE

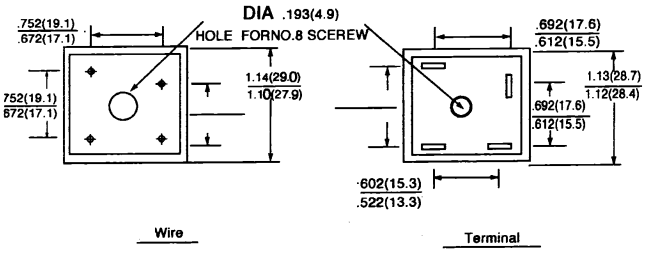
50 to 1000 Volts

CURRENT

15.0/25.0/35.0 Amperes

KBPC-W





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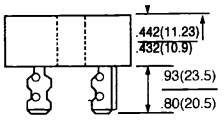

Dimensions in inchesand (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.
60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

TYPE NUMBER		SYMBOLS	-00G	-01G	-02G	-04G	-06G	-08G	-10G	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T_C = 55℃ (See Fig.1)	KBPC15 KBPC25 KBPC35	$I_{F(AV)}$	15.0 25.0 35.0							A
Peak Forward Surge Current single sine-wave superimposed on rated load (JEDEC method)	KBPC15 KBPC25 KBPC35	I_{FSM}	200 300 400							A
Maximum Instantaneous Forward Voltage Drop per Element at Specified Current	KBPC15 7.5A KBPC25 12.5A KBPC35 17.5A	V_F	1.10							V
Maximum Reverse DC Current at Rated D.C Blocking Voltage per Element		I_R	10.0							μA
Typical Thermal Resistance <1>		$R_{\theta JC}$	2.0							℃/W
Operating and Storage Temperature Range		T_J, T_{STG}	-50 to +150							℃

Notes: 1. Thermal Resistance from Junction to Case Per leg.
2. Bolt down on heatsink with silicone thermal compound between bridge and mounting surface for maximum heat transfer with # 10 screw
3. Suffix "W" – Wire Lead Structure.

JGD

RATINGS AND CHARACTERISTIC CURVES (KBPC1500G THRU KBPC3500G KBPC1510G KBPC2510G KBPC3510G)

FIG.1 – TYPICAL FORWARD OUTPUT CURRENT DERATING CURVE

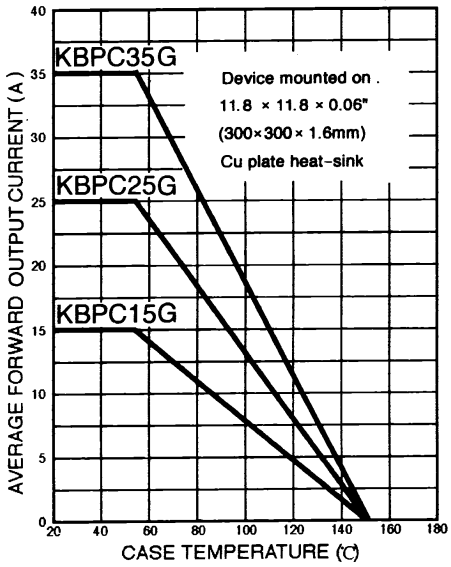

FIG.2 – MAXIMUM NON – REPETITIVE SURGE CURRENT – PER ELEMENT

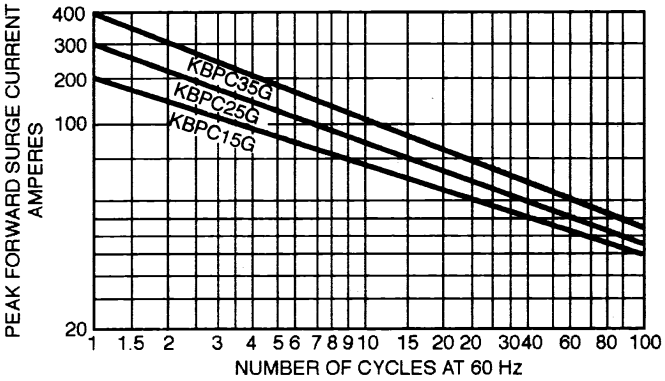

FIG.3 – TYPICAL REVERSE CHARACTERISTICS PER ELEMENT

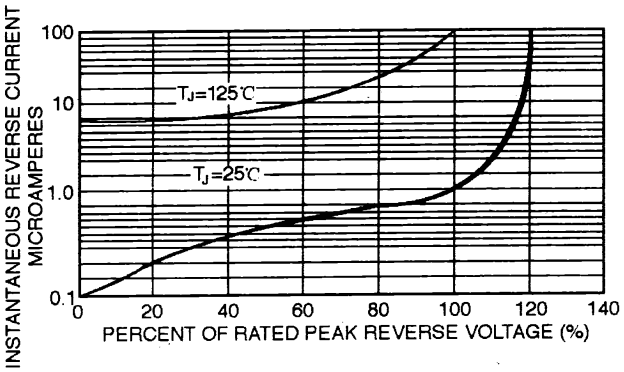

FIG.4 – TYPICAL FORWARD CHARACTERISTICS – PER ELEMENT