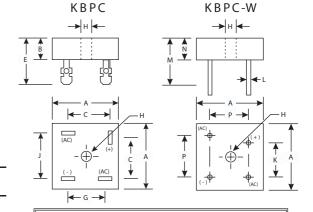


KBPC40005/W THRU KBPC4010/W

CURRENT 40.0 Amperes VOLTAGE 50 to 1000 Volts

Features

- · Diffused Junction
- · Low Reverse Leakage Current
- · Low Power Loss, High Efficiency
- · Surge Overload Rating to 400A Peak
- · Electrically Isolated Metal Case for Maximum Heat Dissipation
- · High Case Dielectric Strength of 1500VRMS



Mechanical Data

· Case: High Conductivity Metal

· Terminals : Plated Leads Solderable per

MIL-STD-202, Method 208

Polarity: Symbols Marked on CaseMounting: Through Hole for #10 Screw

Mounting Torque: 8.0 Inch-pounds Maximum
Weight: KBPC 31.6 grams (approx.)
KBPC-W 28.5 grams (approx.)

Mounting Position : AnyMarking : Type Number

KBPC / KBPC-W Dim Max Dim Min Max 19.10 28.70 17.10 Α 28,40 11.23 K 10.40 12.40 1.07 Ø 17.60 0.97 Ø 25.40 Μ 30.50 15.30 N 10.97 11.23 13.30 17.10 19.10 Hole for #10 screw 4.85 Ø 5.59 Ø All Dimensions in mm

"W" Suffix Designates Wire Leads No Suffix Designates Fast-on Terminals

Maximum Ratings And Electrical Characteristics

(Ratings at 25 °C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

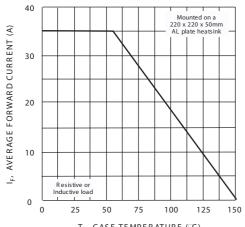
		Symbols	KBPC40 005/W	KBPC40 01/W	KBPC40 02/W	KBPC40 04/W	KBPC40 06/W	KBPC40 08/W	KBPC40 10/W	Units
Peak Repetitive Reverse voltage Working Peak Reverse voltage DC Blocking voltage		Vrmm Vrwm Vr	50	100	200	400	600	800	1000	Volts
RMS Reverse voltage		VR(RMS)	35	70	140	280	420	560	700	Volts
Average Rectified Output Current @ Tc=55 ℃		lo	40							Amps
Non-Repetitive Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)		lfsm	500							Amps
Forward voltage (per element)	@ IF=20 A	VFM	1.2							Volts
Peak Reverse Current at Rated DC Blocking voltage	@ Tc=25 ℃ @ Tc=125 ℃	lr	10 1.0						μA mA	
I ² t Rating for Fusing (t<8.3ms) (Note 2)		l ² t	800							A ² s
Typical Junction Capacitance (Note 3)		Cj	300							pF
Typical Thermal Resistance Junction to Case		R <i>θ</i>	1.5							°C/W
Operating and Storage Temperature Range		Tj Tstg	-50 to +150							°C

Notes

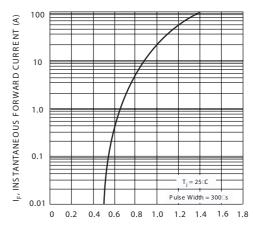
- (1) Thermal resistance junction to case mounted on heat sink.
- (2) Measured at non-repetitive, for t > 1.0ms and < 8.3ms.
- (3) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.



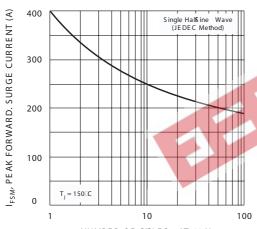
RATINGS AND CHARACTERISTIC CURVES KBPC40005/W THRU KBPC4010/W



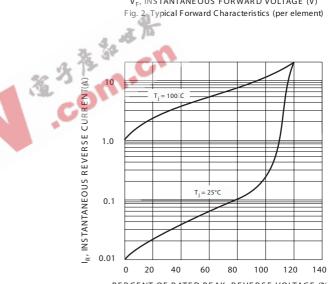
 T_{C} , CASE TEMPERATURE (\square C) Fig. 1 Forward. Current Derating Curve.



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics (per element)



NUMBER OF CELES AT 60 Hz Fig. 3 Maimum NonRepetitive Surge Current



PERCENT OF RATED PEAK REVERSE VOLTAGE (% Fig. 4 Typical Reverse Characteristics (per element)