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KBPC50 SERIES



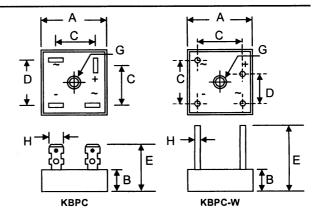
50A HIGH CURRENT SINGLE-PHASE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V

Mechanical Data

- Case: KBPC (Metal Case with Faston Lugs) or KBPC-W (Metal Case with Wire Leads)
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm-kg (20 in-lbs) Max.
- Weight: 30 grams (KBPC); 28 grams (KBPC-W)
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "LF" Suffix to Date Code



	KB	PC	KBPC-W							
Dim	Min	Max	Min	Max						
Α	27.94	28.96	27.94	28.96						
В	10.97	11.23	10.97	11.23						
С	15.50	17.60	17.10	19.10						
D	17.50	18.50	10.90	11.90						
E	22.86	25.40	40 30.50							
G	Hole for #10 screw, 5.08Ø Nominal									
H	6.35	ГурісаІ	0.97Ø	1.07Ø						
All Dimension in mm										

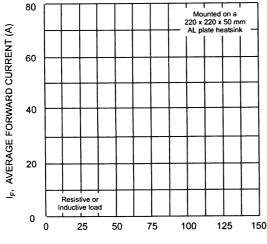
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

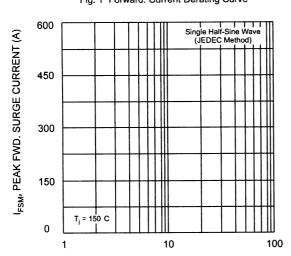
Ohamadadada	Symbol	KBPC50									Unit	
Characteristic		05	01	02	04	06	08	10	12	14	16	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	>
Average Rectified Output Current @T _A = 60°C	Ю	50								Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	450								Α		
Forward Voltage per leg @I _F = 25A	VFM	1.2								V		
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 125°C	IRM	10 1.0								μA mA		
I ² t Rating for Fusing (t < 8.3ms)	l²t	800								A ² s		
Typical Junction Capacitance (Note 1)	Cj	300								pF		
Typical Thermal Resistance per leg (Note 2)	R∌JC	1.6									°C/W	
RMS Isolation Voltage from Case to Leads	Viso	2500								٧		
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150								°C		

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

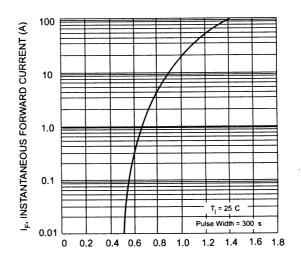
2. Thermal resistance junction to case, mounted on heatsink.







NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Surge Current



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

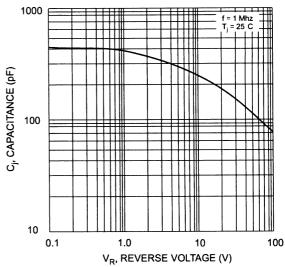
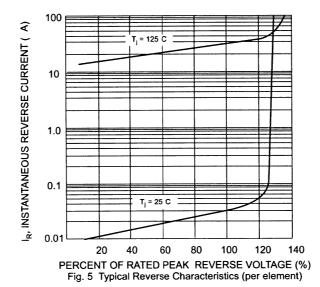


Fig. 4 Typical Junction Capacitance (per element)



KBPC50 SERIES 2 of 2

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1N2997B 2N4857A 1N2982RB 50RIA40 2N4856A MJ10000 1N1185A 1N3317B 1N2971B 2N4990 PMD16K80 1N2989B 70HFR40

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