KBPC40, 50/W SERIES

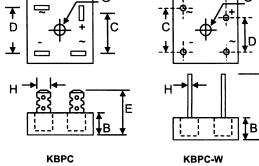
40, 50A HIGH CURRENT BRIDGE RECTIFIER

Features

- 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: Metal Case with Electrically • Isolated Epoxy
- Terminals: Plated Leads Solderable
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- KBPC Weight: 31.6 grams (approx.) KBPC-W 28.5 grams (approx.)
- Marking: Type Number



C

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	KE	PC	KBPC-W					
Dim	Min	Max	Min	Max				
A	28.40	28.70	28.40	28.70				
В	10.97	11.23	10.97	11.23				
С	15.70	16.70	17.10	19.10				
D	17.50	18.50	10.90	11.90				
E	22.86	25.40	30.50	-				
G	Hole for #10 screw, 5.08Ø Nominal							
н	6.35	Typical	0.97Ø	1.07Ø				
	All	Dimension	in mm	•				

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

"W" Suffix Designates Wire Leads No Suffix Designates Faston Terminals

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

Characteristics	Symbol	-005/W	-01/W	-02/W	-04/W	-06/W	-08/W	-10/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	v
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	v
Average Rectifier Output CurrentKBPC40@Tc = 55°CKBPC50	ю				40 50				A
Non-Repetitive Peak Forward SurgeCurrent 8.3ms single half sine-waveKBPC40Superimposed on rated loadKBPC50(JEDEC Method)KBPC50	IFSM				400 400				A
Forward Voltage DropKBPC40 @ l_F = 20A(per element)KBPC50 @ l_F = 25A	Vfm				1.2	· · · · · · · · · · · · · · · · · · ·			v
Peark Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	IRM				10 1.0				μA mA



60LID STATE INC. 46 FARRAND STREET

BLOOMFIELD, NEW JERSEY 07003

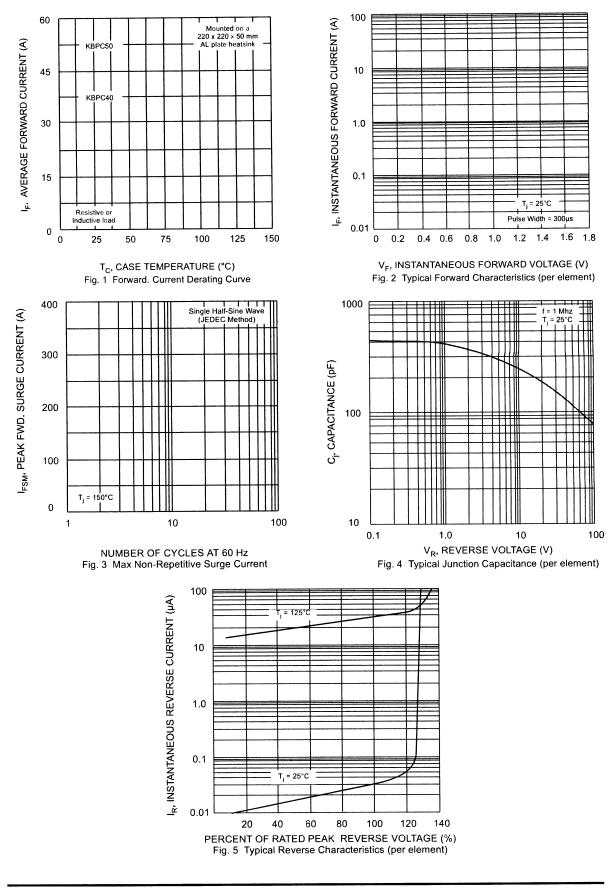
www.solidstateinc.com

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

Typical Junction Capacitance (per element) (Note 1)	Cj	300	pF
Typical Thermal Resistance Junction KBPC40 to Case (per element) (Note 2) KBPC50	R∉jc	1.5	ĸw
RMS Isolation Voltage from Case to Lead	Viso	2500	v
Operating and Storage Temperature Range	Tj, Tstg	-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.



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