



Micro Commercial Components



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KBJA10005 THRU KBJA1010

Features

- Lead Free Finish/RoHS Compliant (NOTE 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- High surge forward current capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Mounting Torque: 0.5 N•m
- UL Recognized File # E165989

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJA10005	KBJA10005	50V	35V	50V
KBJA1001	KBJA1001	100V	70V	100V
KBJA1002	KBJA1002	200V	140V	200V
KBJA1004	KBJA1004	400V	280V	400V
KBJA1006	KBJA1006	600V	420V	600V
KBJA1008	KBJA1008	800V	560V	800V
KBJA1010	KBJA1010	1000V	700V	1000V

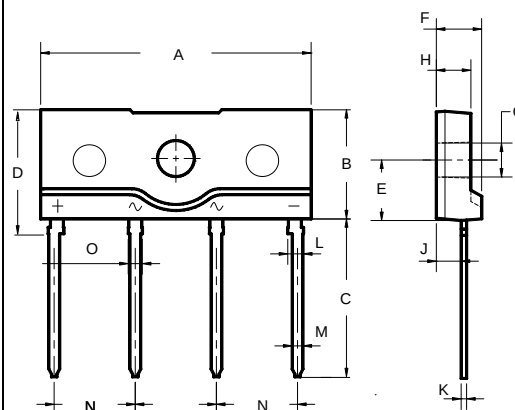
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10 A	$T_C = 95^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	150A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.10V	$I_{FM} = 5.0A$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA	$T_a = 25^\circ\text{C}$
I^2t Rating for fusing	I^2t	93A ² S	(1ms < t < 8.3ms)
Thermal Resistance	R_{thJA} R_{thJC}	28°C/W 2.8°C/W	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7

10 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

JB



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.972	.996	24.70	25.30	
B	.394	.417	10.00	10.60	
C	.575	.598	14.60	15.20	
D	.449	.472	11.40	12.00	
E	.213	.236	5.40	6.00	
F	.154	.177	3.90	4.50	
G	.122	.134	3.10	3.40	
H	.114	.138	2.90	3.90	
J	.079	.102	2.00	2.60	
K	.012	.024	0.40	0.60	
L	.053	.061	1.35	1.55	
M	.035	.043	0.90	1.10	
N	.287	.303	7.30	7.70	
O	.047	.055	1.20	1.40	

Characteristics(Typical)

FIG1: I_o - T_c Curve

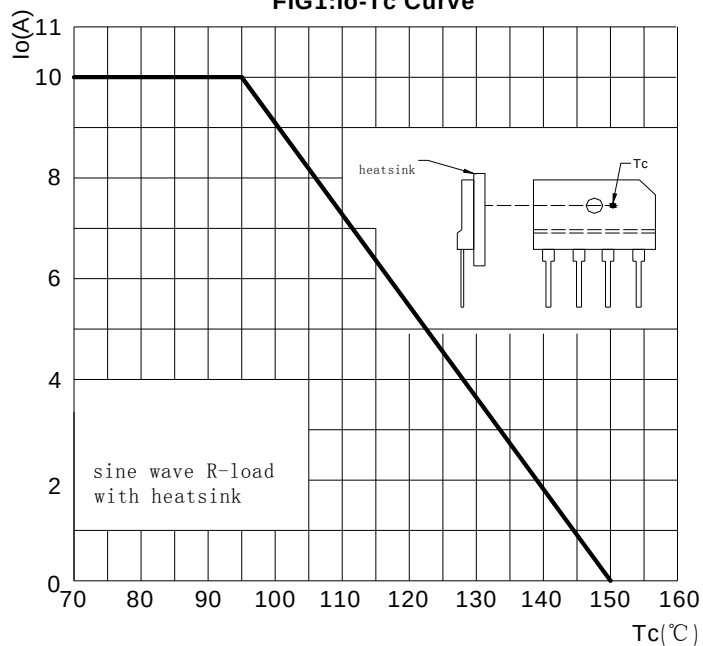


FIG2: Surge Forward Current Capability

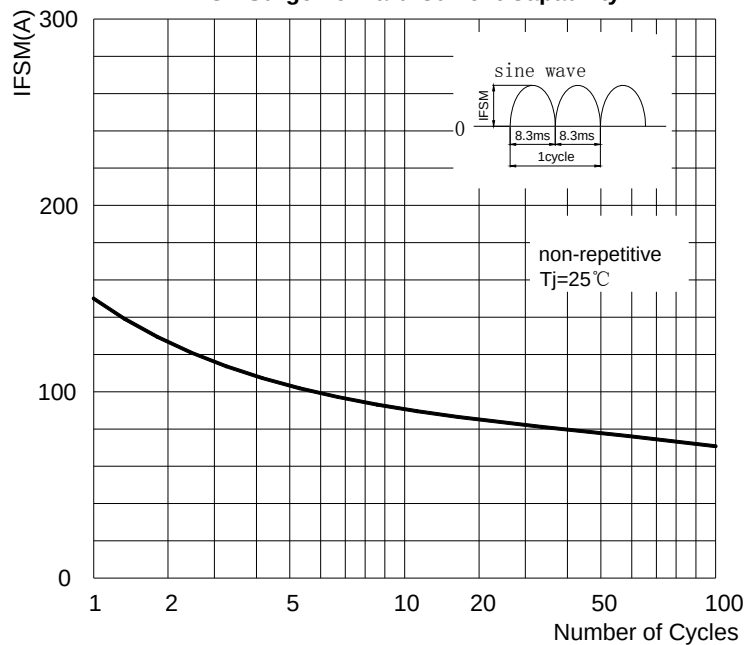


FIG3: Forward Voltage

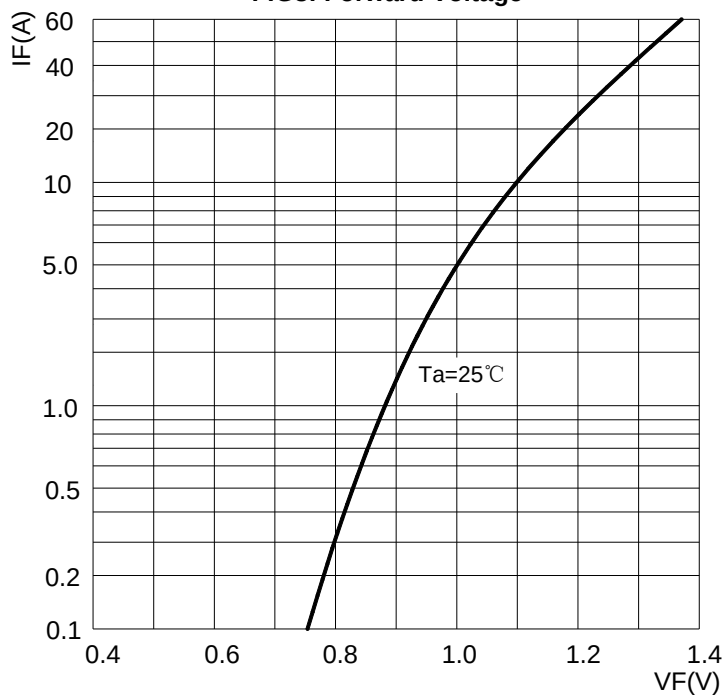
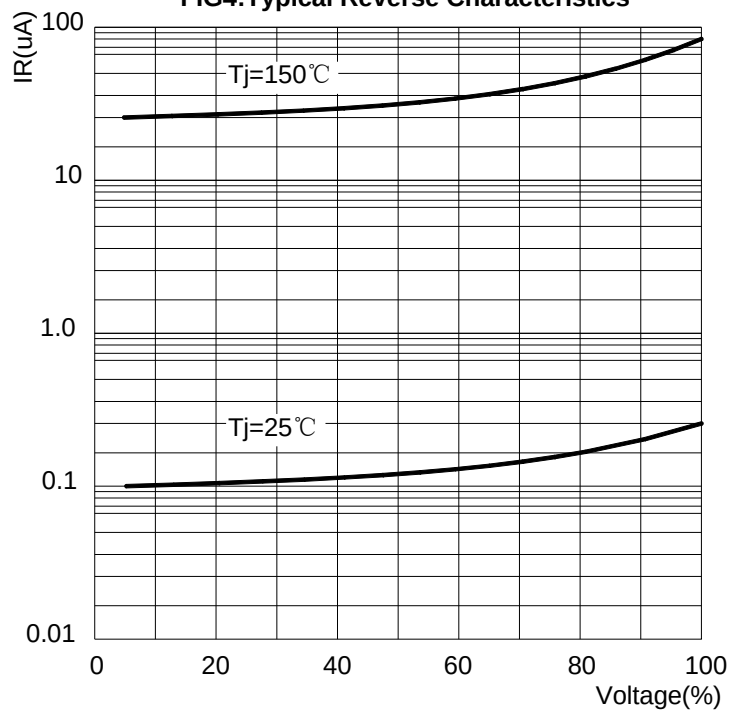


FIG4: Typical Reverse Characteristics



Ordering Information :

Device	Packing
Part Number-BP	Bulk: 2.0K/Ctn

Note : Adding "-HF" suffix for halogen free, eg. Part Number-BP-HF

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