



Micro Commercial Components



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Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- Halogen free available upon request by adding suffix "-HF"
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P" Suffix designates Compliant. See ordering information)

Maximum Ratings

- UL Recognized File # E165989
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Mounting Torque: 5.0 in-lbs Maximum
- ESD Voltage: HBM: 4KV
MM: 400V
CDM: 800V

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBJ6005G	50V	35V	50V
KBJ601G	100V	70V	100V
KBJ602G	200V	140V	200V
KBJ604G	400V	280V	400V
KBJ606G	600V	420V	600V
KBJ608G	800V	560V	800V
KBJ610G	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Maximum Average Forward Rectified Current @ $T_C=110^{\circ}\text{C}$	$I_{F(AV)}$	6.0 A 2.8 A	with heatsink ⁽¹⁾ without heatsink
Peak Forward Surge Current	I_{FSM}	170A	8.3ms, half sine
Maximum Forward Voltage	V_F	1.0V	$I_{FM} = 3.0A$; $T_A=25^{\circ}\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5.0uA 500uA	$T_J=25^{\circ}\text{C}$ $T_J=125^{\circ}\text{C}$
I^2t Rating for fusing	I^2t	120 A ² S	$t < 8.3\text{ms}$
Typical Thermal Resistance	R_{JC}	1.5 °C/W	Note 1
Typical Junction Capacitance	C_J	80pF	Measured at $F=1.0\text{MHz}$ $V_R=4.0\text{V}$

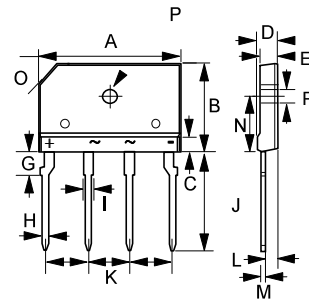
Note 1: Unit Mounted on 75mm x 75mm x 1.6mm Cu Plate Heatsink

2: High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7a

KBJ6005G THRU KBJ610G

6.0 Amp Glass Passivated Bridge Rectifiers 50 to 1000 Volts

KBJ



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.976	.992	24.80	25.20	
B	.579	.602	14.70	15.30	
C	.154	.161	3.90	4.10	
D	.173	.189	4.40	4.80	
E	.134	.150	3.40	3.80	
F	.122	.134	3.10	3.40	Ø
G	.130	.146	3.30	3.70	
H	.035	.043	0.90	1.10	
I	.059	.075	1.50	1.90	
J	.669	.709	17.00	18.00	
K	.287	.303	7.30	7.70	
L	.098	.114	2.50	2.90	
M	.024	.031	0.60	0.80	
N	.366	.413	9.30	10.50	
O	.118X45°		3.0X45°		
P	.122	.134	3.10	3.40	Ø

■ Rating and characteristic curves

FIG1: I_o - T_c Curve

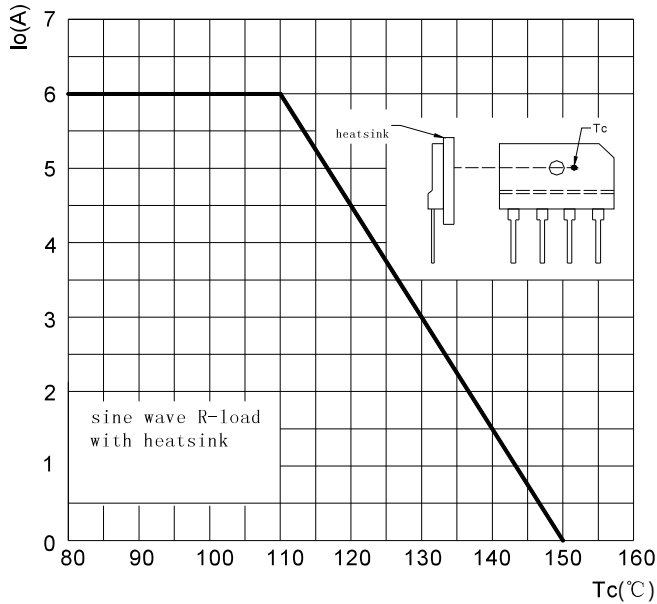


FIG2: Surge Forward Current Capacity

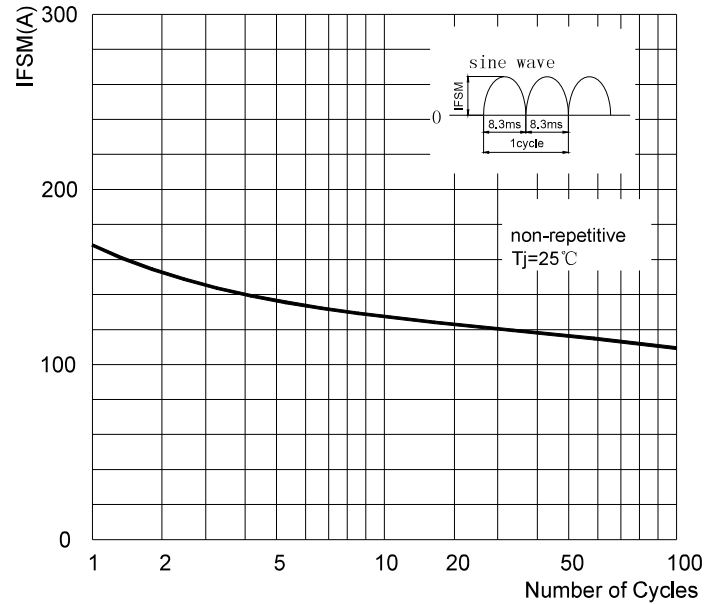


FIG3: Forward Voltage

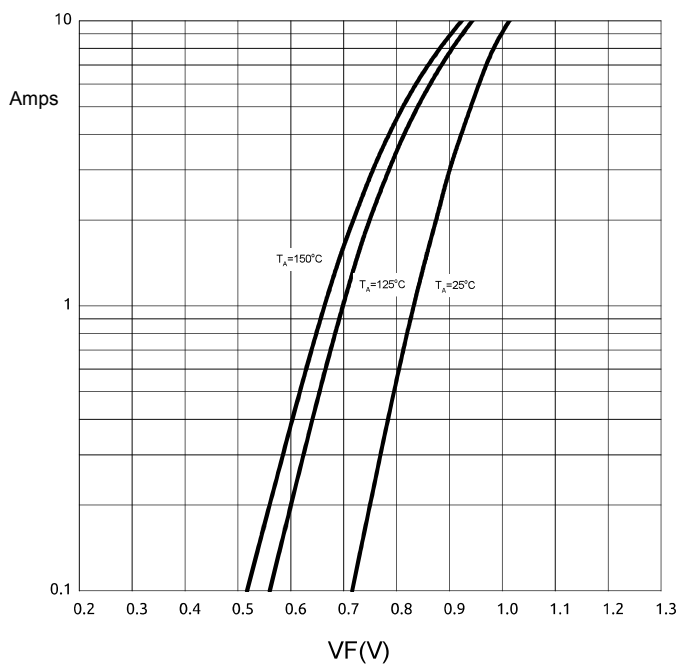
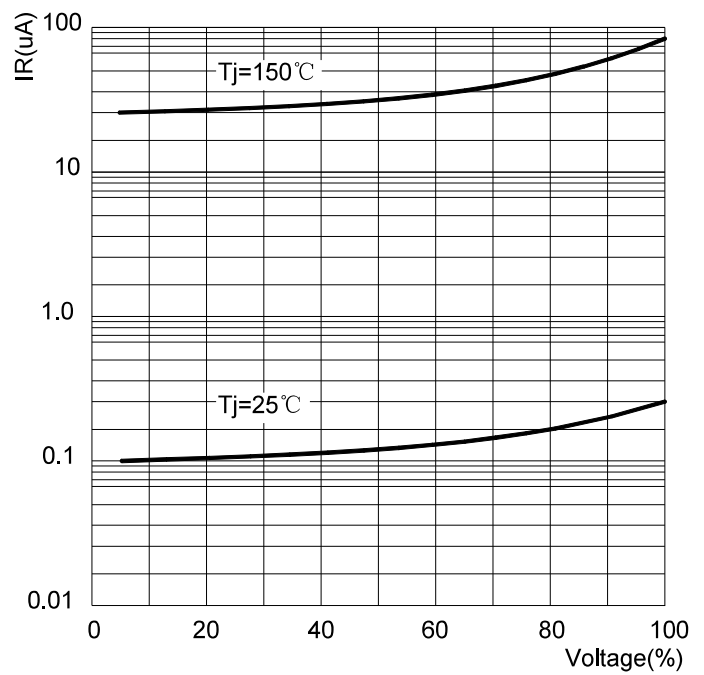


FIG4: Typical Reverse Characteristics





Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1K/Box

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

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