Micro Commercial Components
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UD2KB05 THRU UD2KB100

2 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts

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

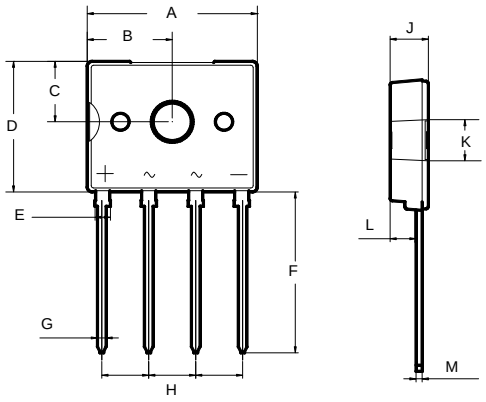
MCC Catalog Number	Device Marking	Maximum Reccurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
UD2KB05	UD2KB05	50V	35V	50V
UD2KB10	UD2KB10	100V	70V	100V
UD2KB20	UD2KB20	200V	140V	200V
UD2KB40	UD2KB40	400V	280V	400V
UD2KB60	UD2KB60	600V	420V	600V
UD2KB80	UD2KB80	800V	560V	800V
UD2KB100	UD2KB100	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0 A	Tc = 140°C
Peak Forward Surge Current	I_{FSM}	75A 65A 150A 130A	Tj=25°C, 8.3ms, half sine Tj=125°C, 8.3ms, half sine Tj=25°C, 1.0ms, half sine Tj=125°C, 1.0ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	I_{FM} = 1.0A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 µA	T_a = 25°C
I^2t Rating for fusing	I^2t	23A^2S	(1ms< t<8.3ms)
Thermal Resistance	R_{thJA} R_{thJC}	55°C/W 1.5°C/W	

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

D3K



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.524	.563	13.30	14.30	
B	.252	.291	6.40	7.40	
C	.177	.217	4.50	5.50	
D	.406	.445	10.30	11.30	
E	.041	.057	1.05	1.45	
F	.516	.531	13.10	13.50	
G	.024	.033	0.60	0.85	
H	.146	.154	3.70	3.90	
J	.102	.142	2.60	3.60	
K	.122	.134	3.10	3.40	
L	.079	.087	2.00	2.20	
M	.016	.024	0.40	0.60	

Characteristics(Typical)

FIG1:Io-Tc Curve

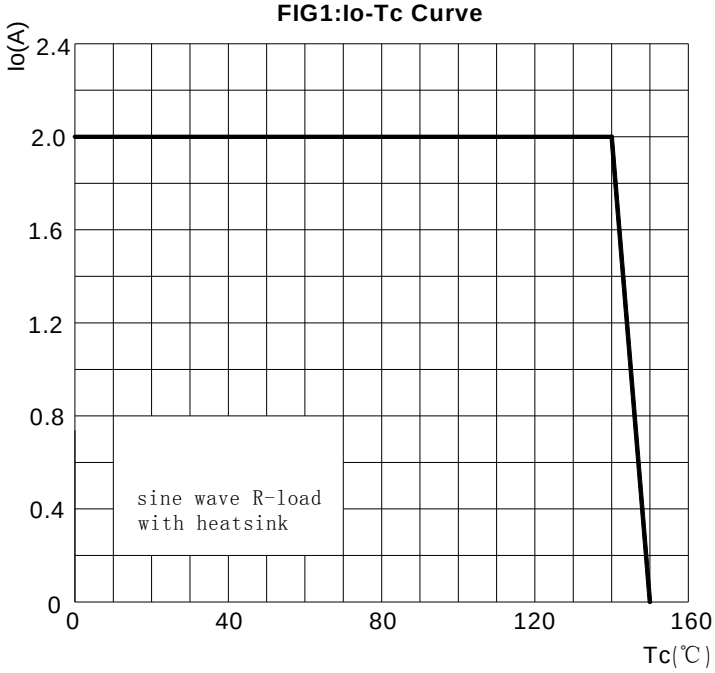


FIG2:Surge Forward Current Capadility

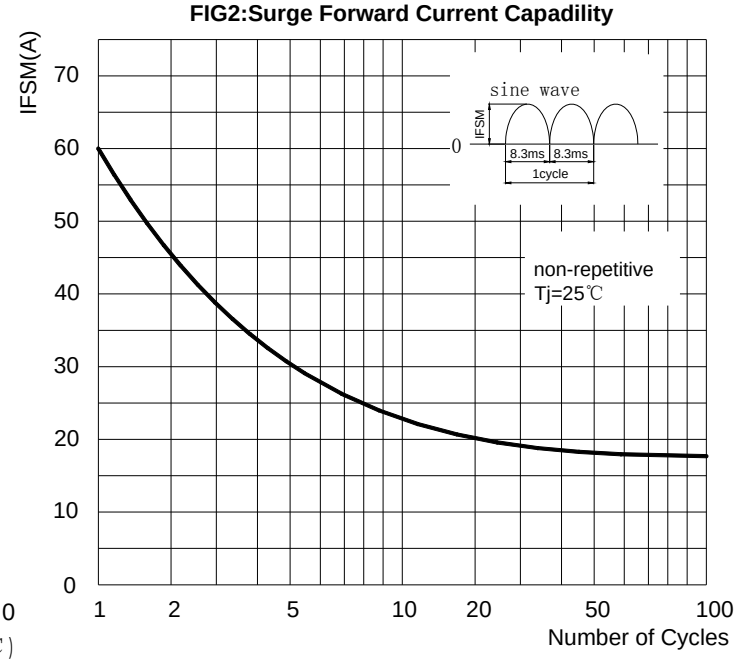


FIG3: Forward Voltage

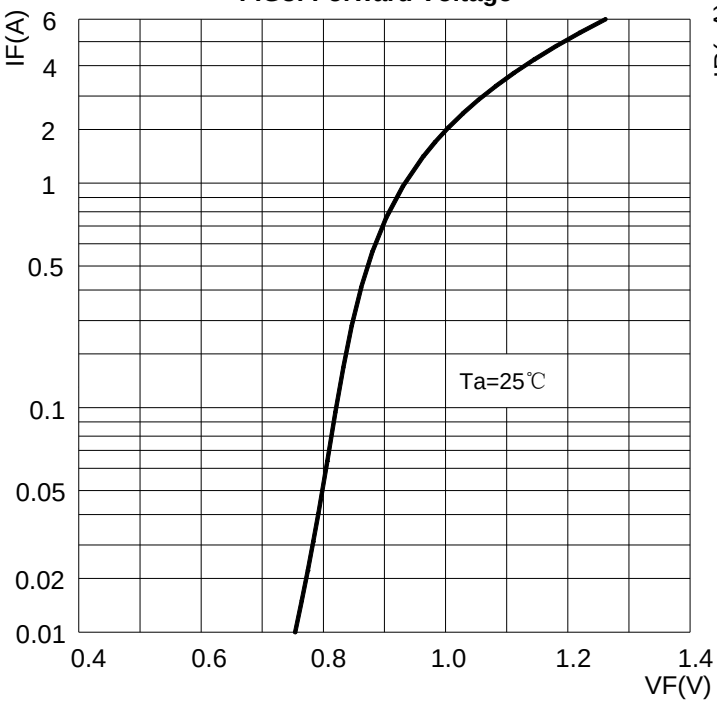
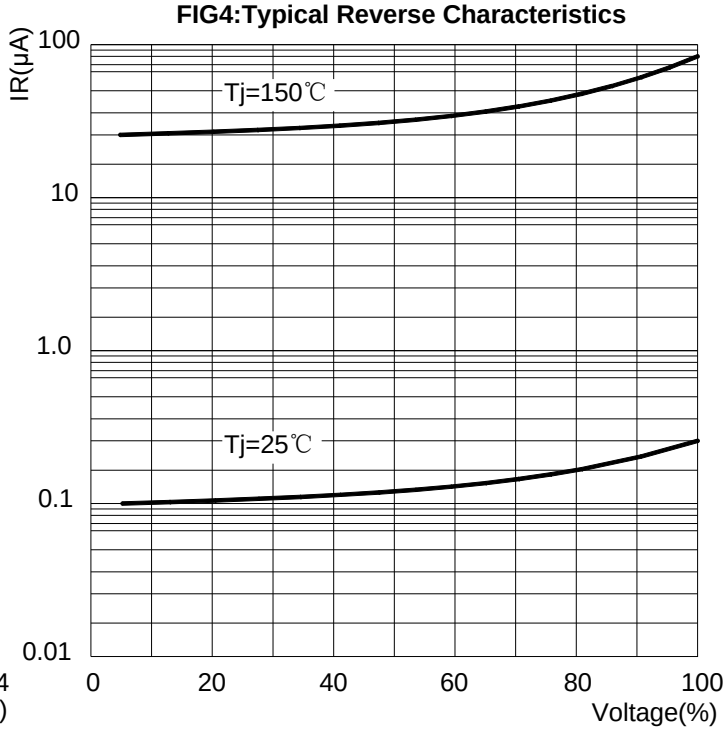


FIG4:Typical Reverse Characteristics



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Ordering Information :

Device	Packing
Part Number-BP	Bulk: 1.5Kpcs/Box

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

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