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E502650

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- · High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 1.5°C/W Junction to Case(Note2)
- Typical Thermal Resistance: 55°C/W Junction to Ambient Without Heatsink

Mechanical Data

• Mounting Torque: 0.5 N•m

MCC Part Number	Device Marking	Maximum Recurrent 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

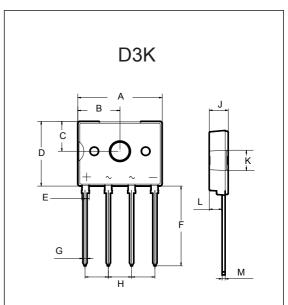
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2.0A	T _C = 140°C	
Peak Forward	I _{FSM}	75A 65A	T_J = 25°C,8.3ms, Half Sine T_J = 125°C	
Surge Current		150A	T _J = 25°C,1.0ms, Half Sine	
		130A	T _J = 125°C	
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	10µA	T _J = 25°C	
I ² t Rating for fusing	l²t	23A ² S	(1ms< t<8.3ms)	

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

2. Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

2 Amp Glass Passivated Bridge Rectifier 50 to 1000 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.524	0.563	13.30	14.30	
В	0.252	0.291	6.40	7.40	
С	0.177	0.217	4.50	5.50	
D	0.406	0.445	10.30	11.30	
Е	0.041	0.057	1.05	1.45	
F	0.516	0.531	13.10	13.50	
G	0.024	0.033	0.60	0.85	
Н	0.146	0.154	3.70	3.90	
J	0.102	0.142	2.60	3.60	
K	0.122	0.134	3.10	3.40	
L	0.079	0.087	2.00	2.20	
M	0.016	0.024	0.40	0.60	



Curve Characteristics

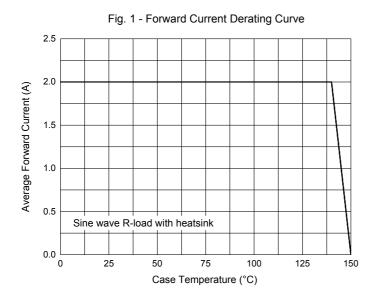


Fig. 3 - Typical Instantaneous Forward Characteristics

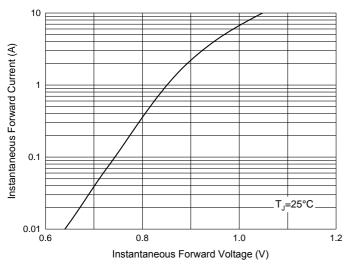


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

90

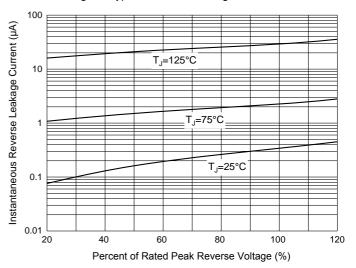
45

8.3 ms Single Half Sine-Wave

0

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-BP	Bulk:25pcs/Tube,1500pcs/Box,6Kpcs/Carton	

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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