

71

E502650

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix Designates 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 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 With Heatsink
- Typical Thermal Resistance: 55°C/W Junction to Ambient Without Heatsink

Mechanical Data

• Mounting Torque: 0.5 N•m

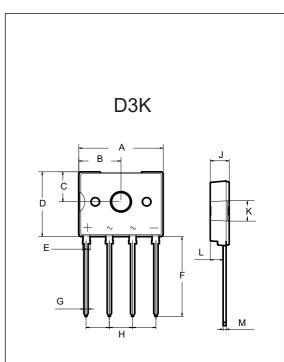
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
UD3KB05	UD3KB05	50V	35V	50V
UD3KB10	UD3KB10	100V	70V	100V
UD3KB20	UD3KB20	200V	140V	200V
UD3KB40	UD3KB40	400V	280V	400V
UD3KB60	UD3KB60	600V	420V	600V
UD3KB80	UD3KB80	800V	560V	800V
UD3KB100	UD3KB100	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	3.0A	T _C =140°C
Peak Forward Surge Current	I _{FSM}	90A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V _F	1.0V	I _{FM} =1.5A; 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	35A ² S	(1ms< t<8.3ms)

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

3 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		
E	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		
М	0.016	0.024	0.40	0.60		



Curve Characteristics

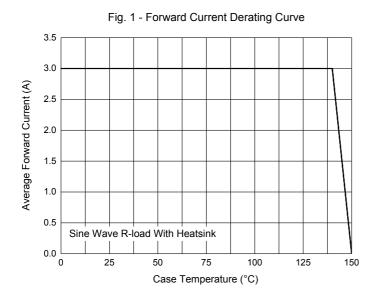


Fig. 3 - Typical Instantaneous Forward Characteristics

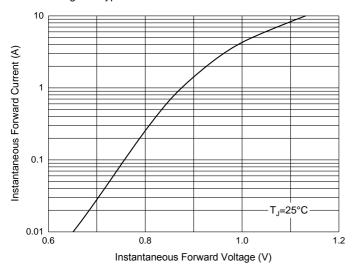


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

80

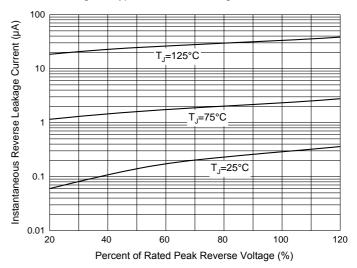
60

8.3 ms Single Half Sine-Wave

100

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

	Device	Packing
Part Number-BP		Ó″ \KGÍ] &•ÐV″à^ÊEÍ€€] &•ÐÓ[¢ĒĒS] &•ÐÔæċ[}

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

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