

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Glass Passivated Chip Junction

AI.

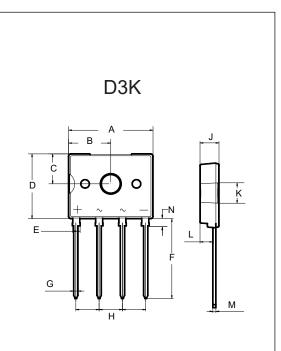
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C (Unless Otherwise Specified)

E502650

		Value							
Parameter	Symbol	UD2K B05	UD2K B10	UD2K B20	UD2K B40	UD2K B60	UD2K B80	UD2K B100	Unit
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{R}								
RMS Reverse Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Average Rectified Forward Current @ T _C =140°C	I _{F(AV)}				2				A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}				60				А
Non-Repetitive Peak Surge Current @ 1ms Square Wave	FSM	¹ FSM 120							~
I²t Rating for Fusing @1ms≤t≤8.3ms	l ² t				15				A²s
Dielectric strength @Terminals to Case, AC 1 Minute	V _{dis}				2				κv

2 Amp Bridge Rectifier 50 to 1000 Volts



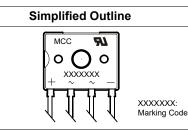
DIMENSIONS

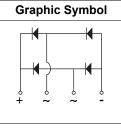
DIM	INCHES		M	М	NOTE	
Diivi	MIN	MAX	MIN	MAX	NOTE	
Α	0.524	0.563	13.30	14.30		
В	0.252	0.291	6.40	7.40		
 С	0.177	0.217	4.50	5.50		
D	0.406	0.445	10.30	11.30		
E	0.041	0.057	1.05	1.45		
F	0.516	0.531	13.10	13.50		
 G	0.024	0.033	0.60	0.85		
 Н	0.146	0.154	3.70	3.90		
 J	0.102	0.142	2.60	3.60		
K	0.122	0.134	3.10	3.40		
 L	0.079	0.087	2.00	2.20		
М	0.016	0.024	0.40	0.60		
Ν	0.035	0.059	0.90	1.50		
-						

Marking Code

Part Number	Marking Code
UD2KB05	UD2KB05
UD2KB10	UD2KB10
UD2KB20	UD2KB20
UD2KB40	UD2KB40
UD2KB60	UD2KB60
UD2KB80	UD2KB80
UD2KB100	UD2KB100

Internal Structure





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



Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		1.5		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Without Heatsink		55		°C/W

Note:

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

Mechanical Data

Recommended Mounting Torque: 0.5 N•m

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =1A;T _J =25°C			1.0	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			5 100	uA
Junction Capacitance	CJ	V _R =4V;f=1MHz;T _J =25°C		19		pF



Curve Characteristics



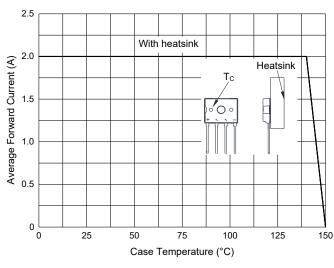


Fig. 3 - Typical Forward Characteristics

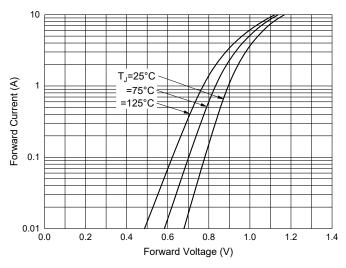
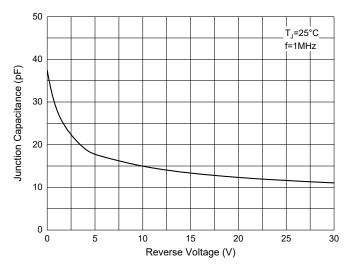


Fig. 5 - Typical Capacitance Characteristics



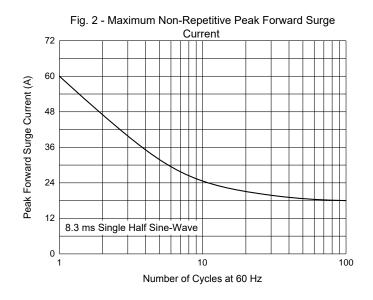
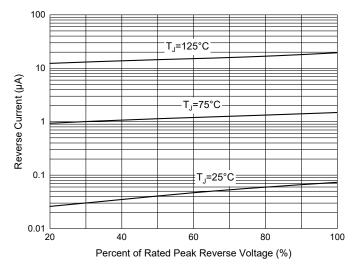


Fig. 4 - Typical Reverse Leakage Characteristics





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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