

Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Ideal for printed circuit boards
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, power supply, switching mode power supply, adapter, audio equipment, and home appliances applications.

Mechanical Data

• Package: D3K

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102
• Polarity: As marked on body

■Maximum Ratings (Ta=25°C Unless otherwise specified)

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PARAMETER		SYMBOL	UNIT	D3UB05	D3UB10	D3UB20	D3UB40	D3UB60	D3UB80	D3UB100	
Device marking code				D3UB05	D3UB10	D3UB20	D3UB40	D3UB60	D3UB80	D3UB100	
Maximum Repetitive Peak Reverse Voltage		VRRM	V	50	100	200	400	600	800	1000	
Maximum RMS Voltage		VRMS	V	35	70	140	280	420	560	700	
Maximum DC blocking Volt	age	VDC	V	50	100	200	400	600	800	1000	
Average rectified output	With heatsink T _C =140°C	- Io	А	3.0							
current @60Hz sine wave, R-load	Without heatsink T _a =25°C			1.2							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C		Iron		90							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM	Α	180							
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² s	33							
Storage temperature		T _{stg}	°C	-55 ~ +150							
Junction temperature		Tj	°C	-55 ~ +150							
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2							
Mounting torque @Recommend torque: 5kg·cm		Tor	kg∙cm	8							

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D3UB05	D3UB10	D3UB20	D3UB40	D3UB60	D3UB80	D3UB100
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=1.5A	1.0						
Maximum DC reverse current at rated DC blocking voltage	IR		T _j =25°C	T _j =25°C 5						
per diode	ıĸ.	μΑ	T _j =125°C				100			
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	e 25						

■Thermal Characteristics (T_a=25°C Unless otherwise specified)

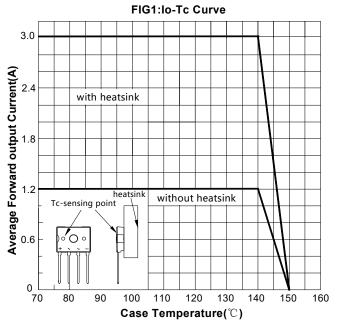
PARAMETER		SYMBOL	UNIT	D3UB05	D3UB10	D3UB20	D3UB40	D3UB60	D3UB80	D3UB100
Thermal resistance Between junction and ambient Without heatsink Between junction and case, With heatsink		R ₀ J-A	°C/W		55.0					
		R ₀ J-C	C/VV	1.5						

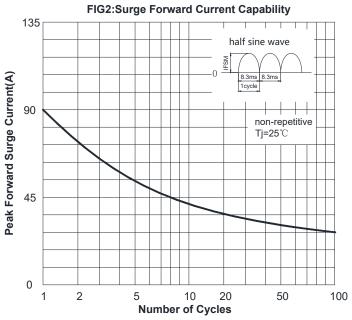
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

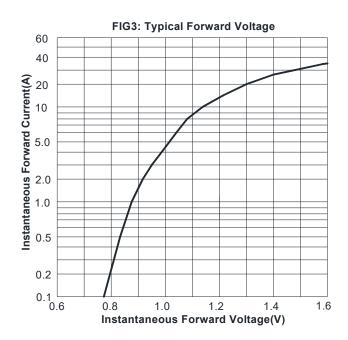
■Ordering Information (Example)

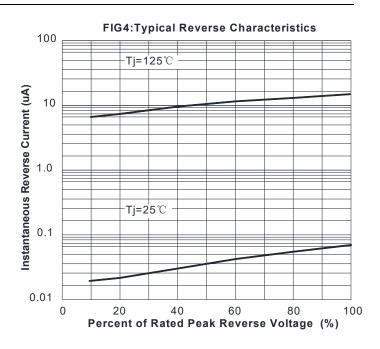
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D3UB05 - D3UB100	B1	Approximate 1.358	25	1500	6000	TUBE

■ Characteristics (Typical)

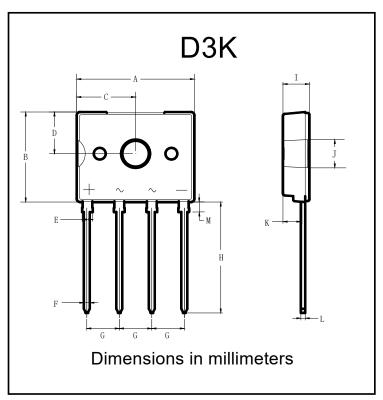








■ Outline Dimensions



D3K						
Dim	Min	Max				
Α	13.30	14.30				
В	10.30	11.30				
С	6.40	7.40				
D	4.50	5.50				
Е	1.05	1.45				
F	0.60	0.85				
G	3.70	3.90				
Н	13.10	13.50				
I	2.60	3.60				
J	3.10	3.40				
K	2.00	2.20				
L	0.40	0.60				
М	0.90	1.50				



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