

# **Bridge Rectifiers**

#### **Features**

- UL recognition, file #E230084
- 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**

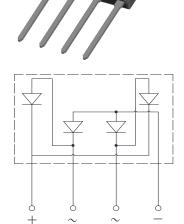
• Package: D3K

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)

PARAMET	TER	SYMBOL	UNIT	D8UB05	D8UB10	D8UB20	D8UB40	D8UB60	D8UB80	D8UB100
Device marking code				D8UB05	D8UB10	D8UB20	D8UB40	D8UB60	D8UB80	D8UB100
Repetitive peak reverse voltage		VRRM	V	50	100	200	400	600	800	1000
Average rectified output  Average rectified output  T <sub>C</sub> =130°C		· Io	۸	8.0						
IR-load	Without heatsink Ta =29°C	l io	А	1.5						
Surge(non-repetitive)forward current @60Hz half sine wave, 1 cycle, Tj=25°C		IFSM	А	170						
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l <sup>2</sup> t	A <sup>2</sup> s	120						
Storage temperature		Tstg	$^{\circ}$	-55 ~+150						
Junction temperature		Tj	$^{\circ}$	-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<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D8UB05	D8UB10	D8UB20	D8UB40	D8UB60	D8UB80	D8UB100
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=4.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						



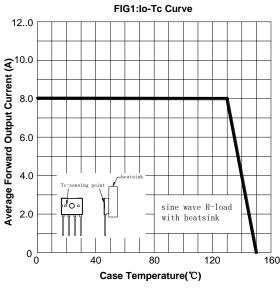
**■Thermal Characteristics** (T<sub>a</sub>=25°C Unless otherwise specified)

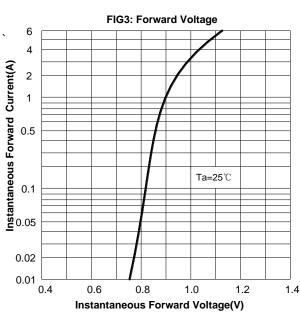
ı	PARAMETER	SYMBOL	UNIT	D8UB05	D8UB10	D8UB20	D8UB40	D8UB60	D8UB80	D8UB100
Thermal	Between junction and ambient, Without heatsink	RøJ-A	°CW	55.0						
resistance	Between junction and case, With heatsink	RθJ-С	C/VV				1.5			

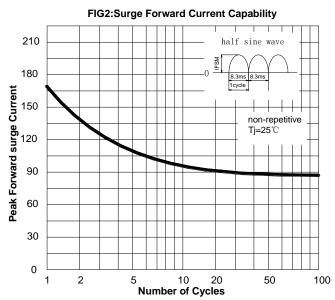
**■**Ordering Information (Example)

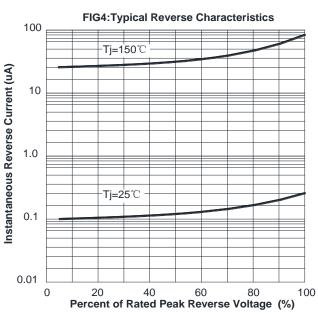
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D8UB05- D8UB100	B1	Approximate 1.269	25	1500	6000	TUBE

## **■** Characteristics (Typical)



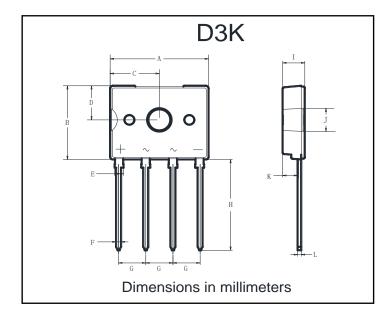








#### **■ Outline Dimensions**



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				

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