

#### **Features**

- UL recognition, file #E230084
- Glass passivated chip junction
- Thin single in-line package
- 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: JC

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

• 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)

PARAMETER		SYMBOL	UNIT	D4JC05	D4JC10	D4JC20	D4JC40	D4JC60	D4JC80	D4JC100	
Device marking code				D4JC05	D4JC10	D4JC20	D4JC40	D4JC60	D4JC80	D4JC100	
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 Voltage		VDC	V	50	100	200	400	600	800	1000	
Average rectified output current	With heatsink Tc =130°C	lo.		4.0							
@60Hz sine wave, R-load	Without heatsink Ta =25°C	- IO	A	2.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25°C			А	135							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		IFSM		270							
Current squared time @1ms≤t≤8.3ms, Tj=25°C, rating of per diode		l²t	A <sup>2</sup> S	75.6							
Storage temperature		T <sub>stg</sub>	°C	-55 ~ <b>+</b> 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							

# **D4JC05 THRU D4JC100**

## **■Electrical Characteristics** (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D4JC05	D4JC10	D4JC20	D4JC40	D4JC60	D4JC80	D4JC100
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage	IR		T <sub>j</sub> =25°C	T <sub>j</sub> =25°C 5						
per diode	יול	μΑ	T <sub>j</sub> =125°C	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	40						

## ■Thermal Characteristics $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

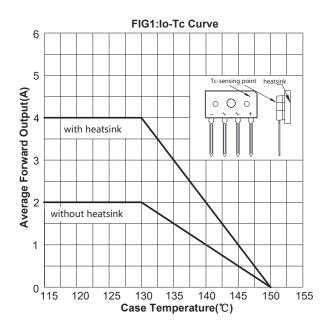
PARAMETER		SYMBOL	UNIT	D4JC05	D4JC10	D4JC20	D4JC40	D4JC60	D4JC80	D4JC100
Thermal	Between junction and ambient, Without heatsink	RθJ-A °C/W		30.0						
Resistance	Between junction and case, With heatsink	tion and case,		2.2						

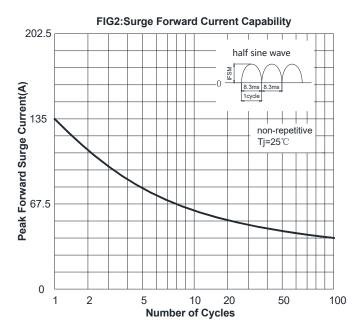
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

### **■Ordering Information** (Example)

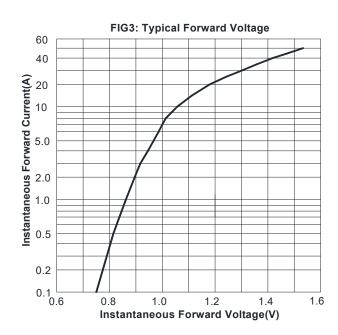
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D4JC05 ~ D4JC100	B1	Approximate 2	25	625	5000	Tube
D4JC05 ~ D4JC100	A1	Approximate 2	500	500	5000	Вох

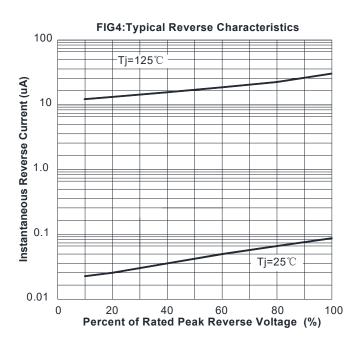
### **■ Characteristics** (Typical)



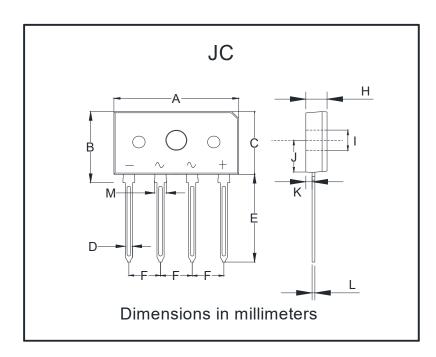


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### **■ Outline Dimensions**



JC						
Dim	Min	Max				
Α	19.60	20.40				
В	11.50	12.30				
С	10.10	10.90				
D	1.00	1.30				
Е	14.20	15.00				
F	4.88	5.28				
Н	3.10	3.70				
I	2.95	3.35				
J	5.30	5.90				
K	0.70	1.30				
L	0.30	0.60				
М	1.70	2.10				



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