

# **Bridge Rectifiers**

#### **Features**

- UL recognition, file #E230084
- 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 switching power supply, home appliances, office equipment, industrial automation applications.

#### **Mechanical Data**

• Package: JA

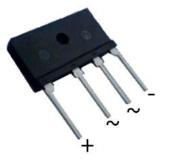
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

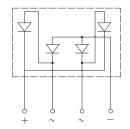
• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: As marked on body







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

PARAMETER	SYMBOL	UNIT	D20JA05	D20JA10	D20JA20	D20JA40	D20JA60	D20JA80	D20JA100	
Device marking code			D20JA05	D20JA10	D20JA20	D20JA40	D20JA60	D20JA80	D20JA100	
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000	
Average Rectified Output Current @60Hz sine wave,	- Io	А	20.0							
R-load, Without heatsink		A	3.3							
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, Tj=25°C	IFSM	Α	240							
Current squared time @1ms≤t≤8.3ms Tj=25°C,rating of per diode	l <sup>2</sup> t	A <sup>2</sup> S	240							
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** $(T_a=25^{\circ}\mathbb{C} \text{ Unless otherwise specified})$

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D20JA05	D20JA10	D20JA20	D20JA40	D20JA60	D20JA80	D20JA100
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=10.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM	5						



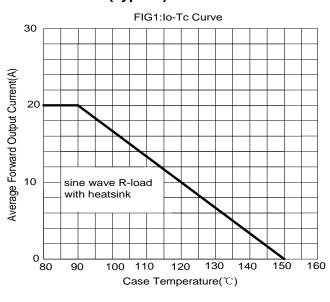
## **■Thermal Characteristics** (Ta=25°C Unless otherwise specified)

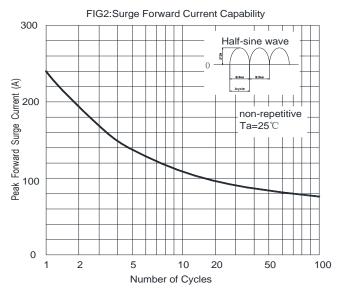
i	PARAMETER	SYMBOL	UNIT	D20JA05	D20JA10	D20JA20	D20JA40	D20JA60	D20JA80	D20JA100	
Thermal	Between junction and ambient, Without heatsink	RøJ-A	°C/W		22.0						
Resistance	Between junction and case, With heatsink	R <sub>0</sub> J-C	C/VV				1.5				

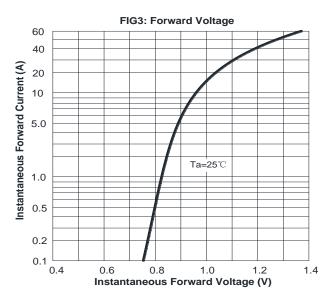
#### **■**Ordering Information (Example)

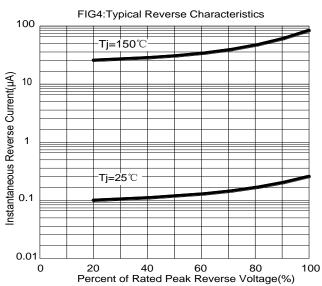
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D20JA05~D20JA100	B1	Approximate 4.3	15	750	1500	Tube

## **■** Characteristics(Typical)

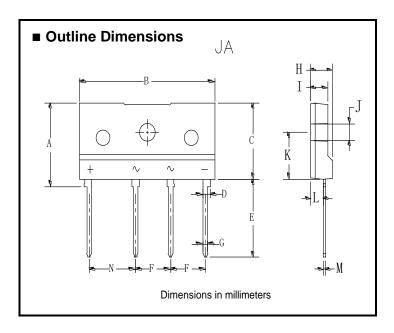












	JA						
Dim	Min	Max					
Α	15.6	16.2					
В	28.7	29.3					
С	14.2	14.8					
D	1.5	1.7					
Е	14.6	15.2					
F	7.3	7.7					
G	0.9	1.1					
Н	4.3	4.9					
I	3.3	3.9					
J	3.1	3.4					
K	8.7	9.3					
L	2.5	2.9					
М	0.4	0.6					
N	9.8	10.2					

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