STEIFPOWER TECHNOLOGY

D4JB05 THRU D4JB100

Bridge Rectifiers

Features

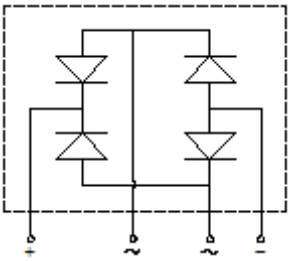
- UL recognition, file #E230084
- Thin single in-line package
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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**: JB
  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 (T_a=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	D4JB05	D4JB10	D4JB20	D4JB40	D4JB60	D4JB80	D4JB100
Device marking code				D4JB05	D4JB10	D4JB20	D4JB40	D4JB60	D4JB80	D4JB100
Repetitive Peak Reverse Voltage		V_{RRM}	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load,	With heatsink T_C =100℃	I_O	A	4.0						
	Without heatsink T_a =25℃			2.3						
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T_j=25℃		I_{FSM}	A	135						
Current squared time @1ms≤t≤8.3ms Tj=25℃,rating of per diode		I^2t	A^2S	76						
Storage Temperature		Tstg	℃	-55 ~+150						
Junction Temperature		Tj	℃	-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℃ Unless otherwise specified）

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D4JB05	D4JB10	D4JB20	D4JB40	D4JB60	D4JB80	D4JB100
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=2.0A	1.00						
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM}	μA	V_{RM}=V_{RRM}	5						

■Thermal Characteristics （T_a=25℃ Unless otherwise specified）

PARAMETER		SYMBOL	UNIT	D4JB05	D4JB10	D4JB20	D4JB40	D4JB60	D4JB80	D4JB100
Thermal Resistance	Between junction and ambient, Without heatsink	RθJ-A	℃/W	35.0						
	Between junction and case, With heatsink	RθJ-C		5.8						

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D4JB05~D4JB100	B1	Approximate 2.4	20	1000	2000	Tube

■ Characteristics(Typical)

FIG1:Io-Tc Curve

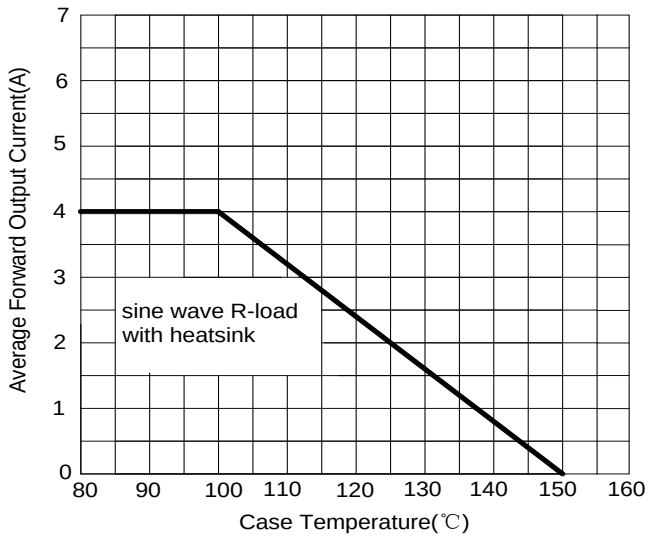


FIG2:Surge Forward Current Capability

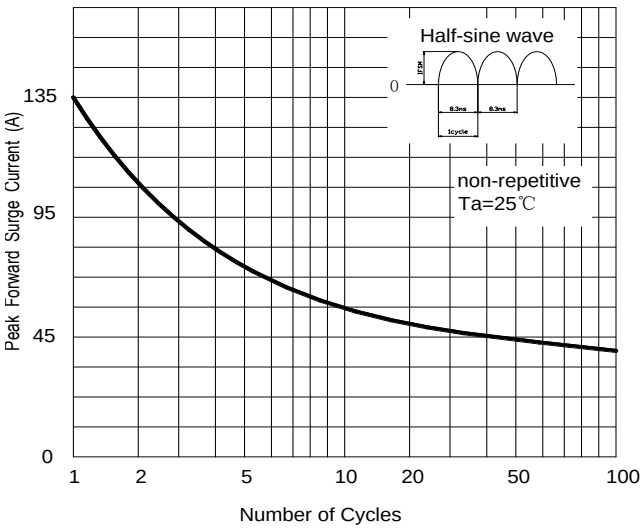


FIG3:Instantaneous Forward Voltage

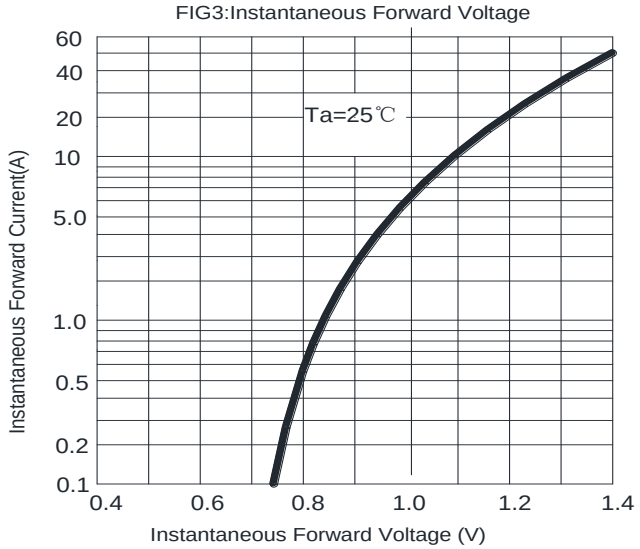
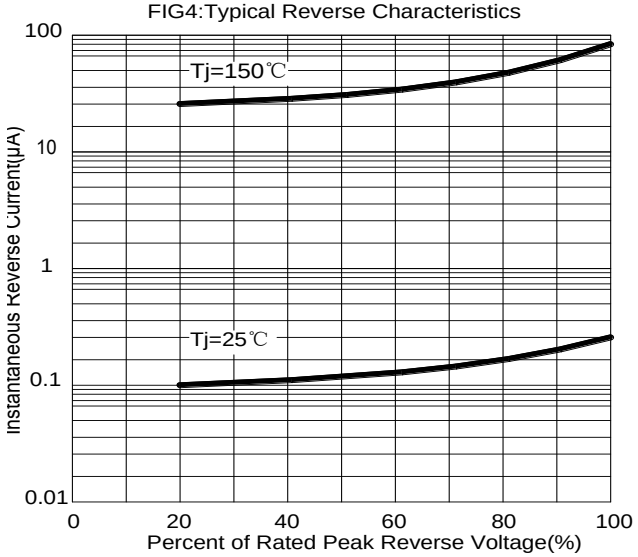
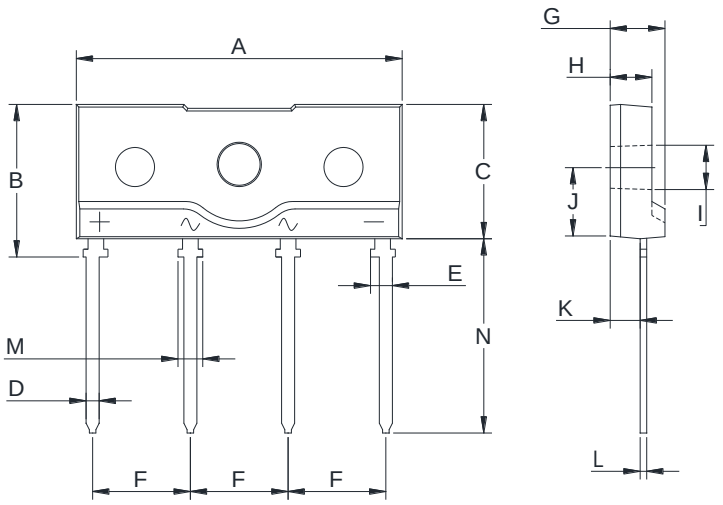


FIG4:Typical Reverse Characteristics



■ **Outline Dimensions**



Dimensions in millimeters

JB		
Dim	Min	Max
A	24.7	25.3
B	11.4	12.0
C	10.0	10.6
D	0.9	1.1
E	1.75(MAX)	
F	7.3	7.7
G	3.9	4.5
H	2.9	3.9
I	3.1	3.4
J	5.4	6.0
K	2.0	2.6
L	0.4	0.6
M	2.1	2.3
N	14.6	15.2

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