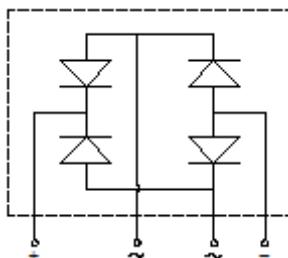


Low VF Bridge Rectifiers



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- Low VF
- 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, 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	D4JBL80
Device marking code			D4JBL80
Maximum Repetitive Peak Reverse Voltage	VR _{RM}	V	800
Maximum RMS Voltage	VR _{MS}	V	560
Maximum DC blocking Voltage	V _{DC}	V	800
Average Rectified Output Current @60Hz sine wave, R-load, T _c =122°C	I _O	A	4.0
Without heatsink T _a =25°C			2.3
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25°C	I _{FSM}	A	135
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C			270
Current squared time @1ms≤t≤8.3ms T _j =25°C, rating of per diode	I ² t	A ² S	75.6
Storage temperature	T _{stg}	°C	-55 ~ +150
Junction temperature	T _j	°C	-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute	V _{dis}	KV	2
Mounting torque @Recommend torque: 5kg·cm	T _{or}	kg·cm	8



D4JBL80

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D4JBL80
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μA	T _j =25°C	5
			T _j =125°C	100
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	38

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

PARAMETER		SYMBOL	UNIT	D4JBL80
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	28.0
	Between junction and case, With heatsink	R _{θJ-C}		3.5

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

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D4JBL80	B1	Approximate 2.4	20	1000	2000	Tube

■ Characteristics(Typical)

FIG1:Io-Tc Curve

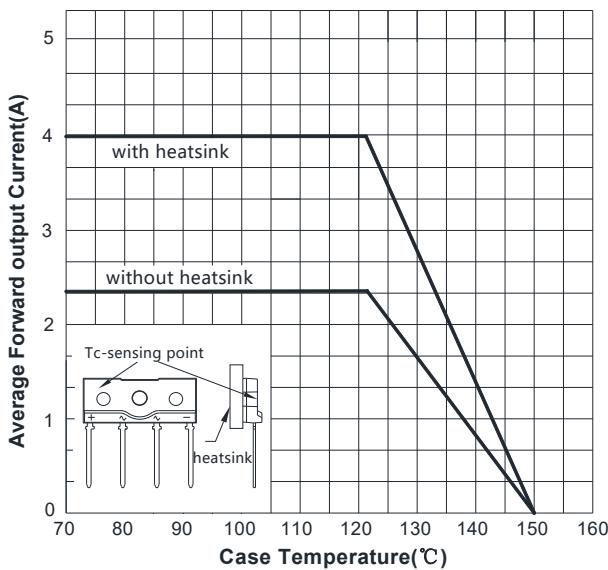


FIG2:Surge Forward Current Capability

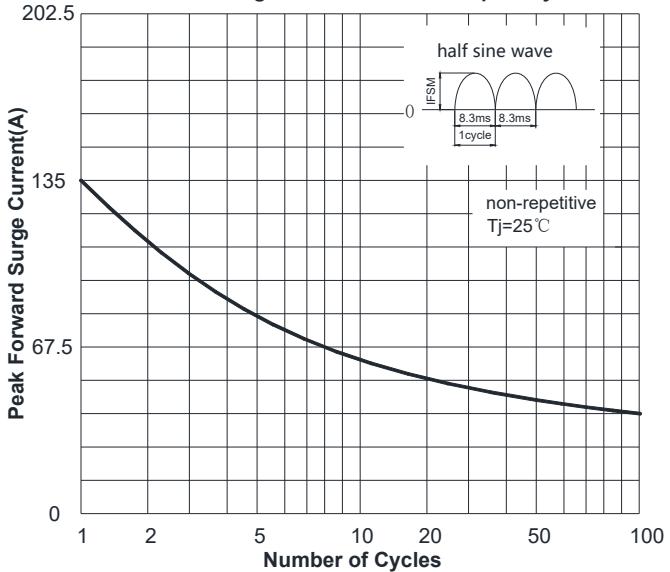




FIG3: Typical Forward Voltage

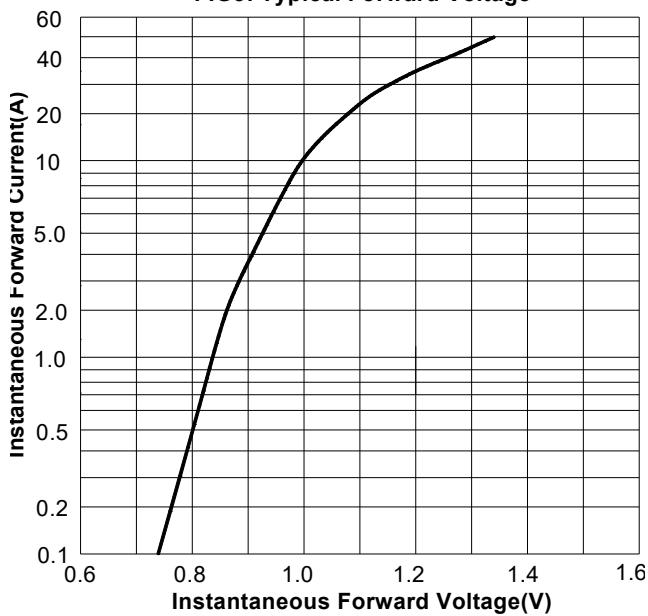
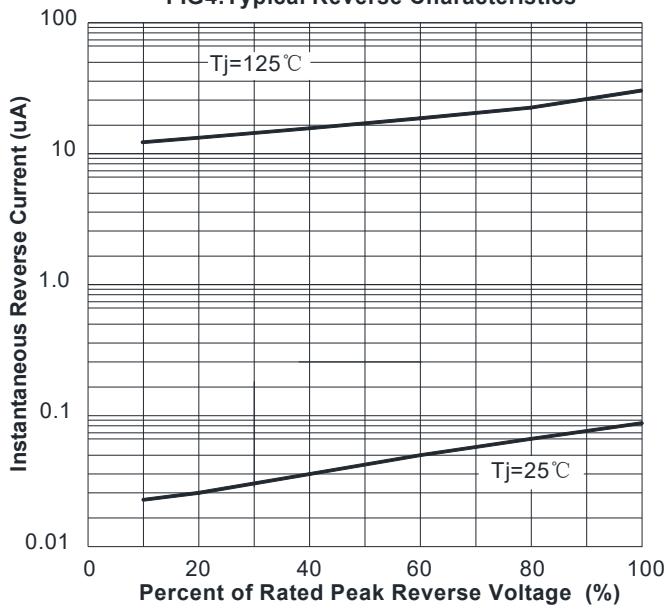
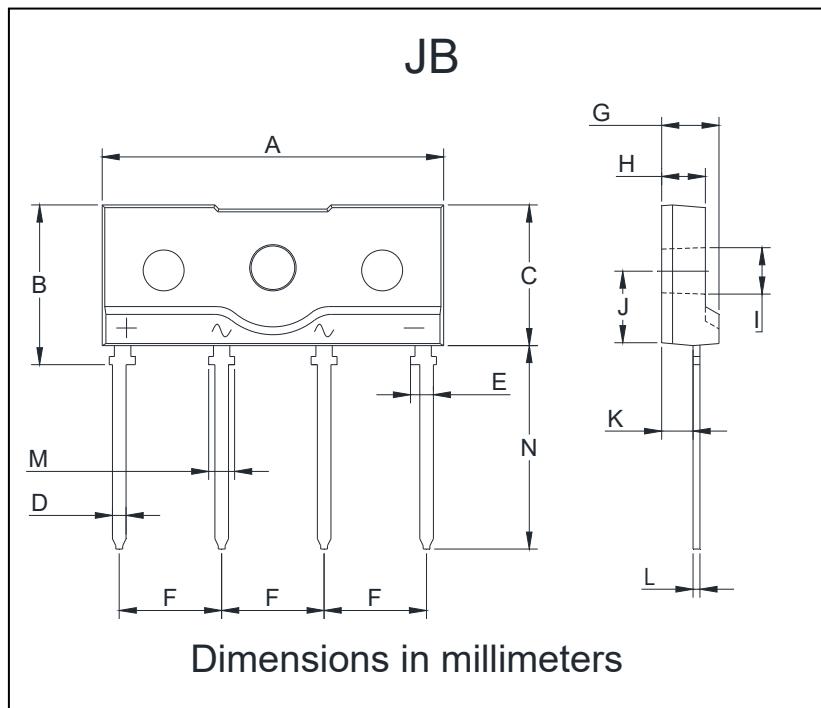


FIG4: Typical Reverse Characteristics



■ Outline Dimensions



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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