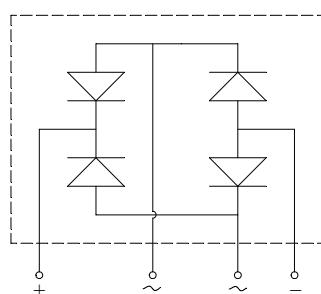




## Low VF Bridge Rectifiers



### 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	D8JBL60S
Device marking code			D8JBL60S
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	600
Maximum RMS Voltage	V <sub>RMS</sub>	V	420
Maximum DC blocking Voltage	V <sub>DC</sub>	V	600
Average Rectified Output Current @60Hz sine wave, R-load,	I <sub>O</sub>	A	8.0
With heatsink T <sub>c</sub> =105°C Without heatsink T <sub>a</sub> =25°C			3.2
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T <sub>j</sub> =25°C	I <sub>FSM</sub>	A	175
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T <sub>j</sub> =25°C			350
Current squared time @1ms≤t≤8.3ms T <sub>j</sub> =25°C, rating of per diode	I <sup>2</sup> t	A <sup>2</sup> S	127
Storage temperature	T <sub>stg</sub>	°C	-55 ~ +150
Junction temperature	T <sub>j</sub>	°C	-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute	V <sub>dis</sub>	KV	2
Mounting torque @Recommend torque: 5kg·cm	T <sub>or</sub>	kg·cm	8



# D8JBL60S

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D8JBL60S
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=4.0A	0.92
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μA	T <sub>j</sub> =25°C	5
			T <sub>j</sub> =125°C	100
Typical junction capacitance	C <sub>j</sub>	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	58

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

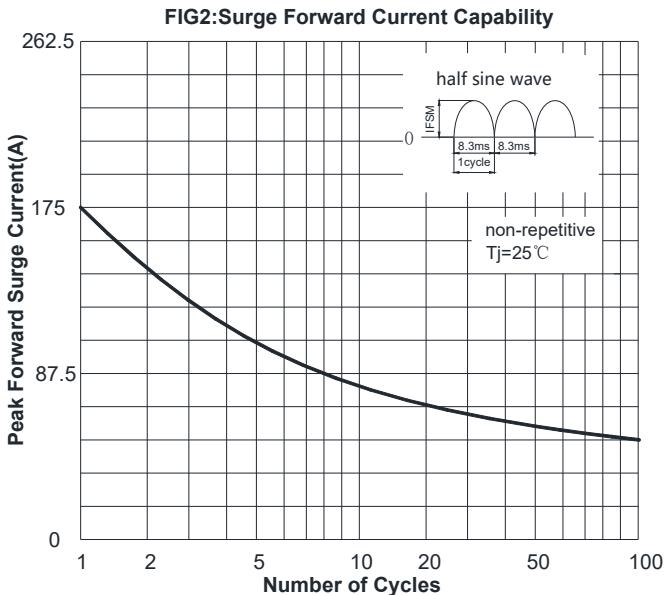
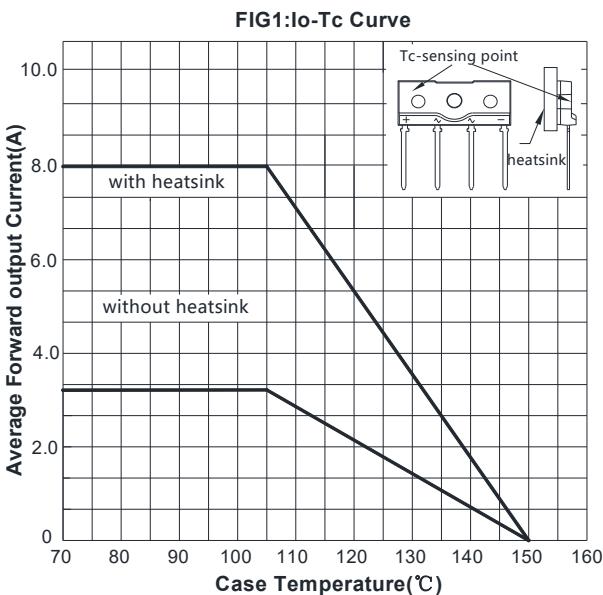
PARAMETER		SYMBOL	UNIT	D8JBL60S
Thermal Resistance	Between junction and ambient, Without heatsink	R <sub>θJ-A</sub>	°C/W	28.0
	Between junction and case, With heatsink	R <sub>θJ-C</sub>		2.8

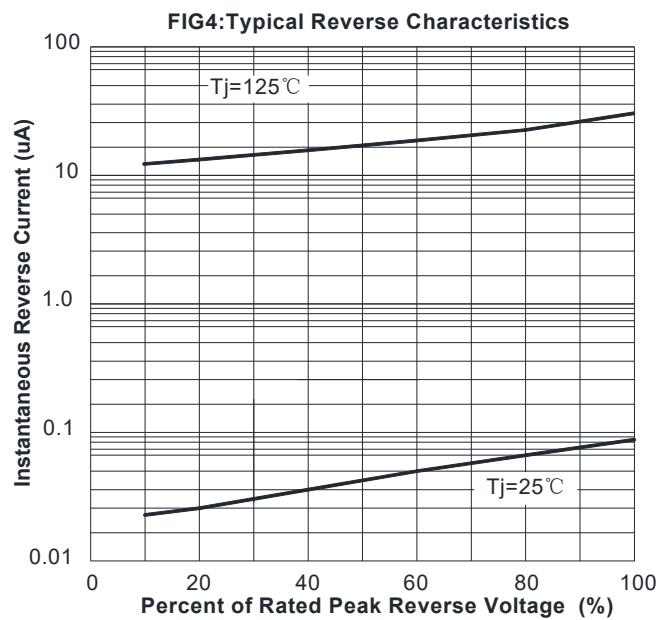
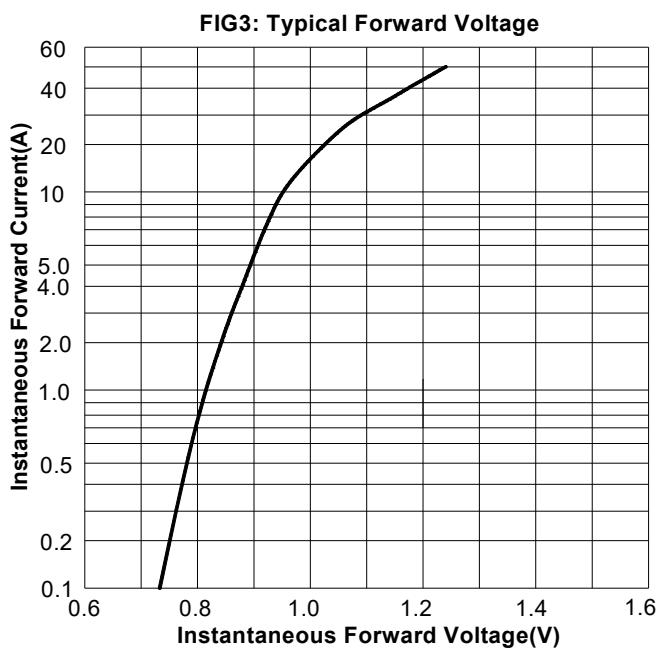
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

## ■ Ordering Information (Example)

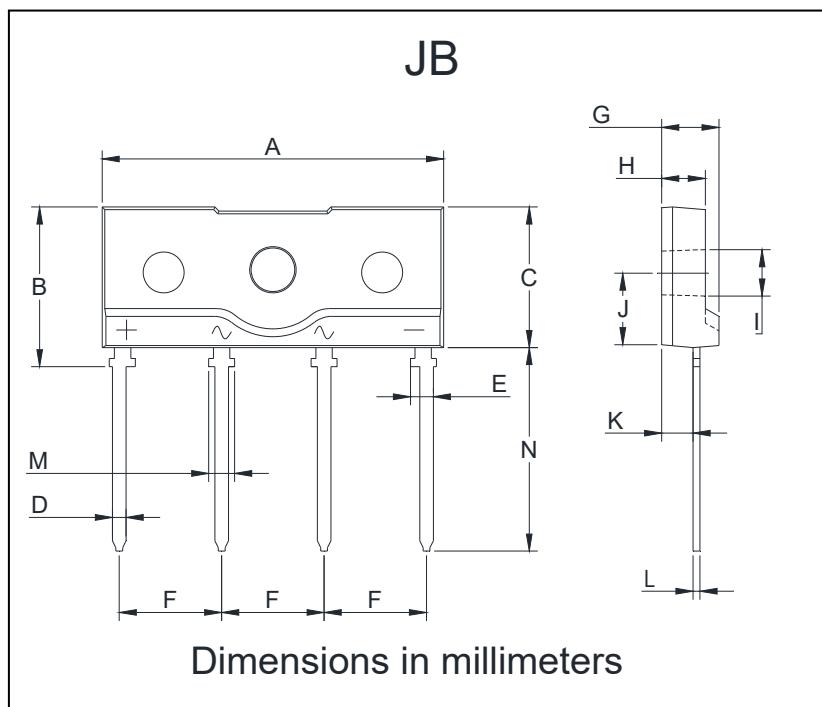
PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D8JBL60S	B1	Approximate 2.4	20	900	1800	Tube

## ■ Characteristics(Typical)





### ■ 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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