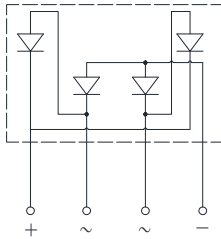
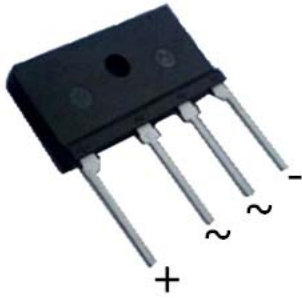


## Low VF Bridge Rectifiers



### Features

- UL recognition, file #E230084
- based on silicon planar process
- 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:** JA  
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 (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	D25JAU60	
Device marking code			D25JAU60	
Maximum Repetitive Peak Reverse Voltage	VRRM	V	600	
Maximum RMS Voltage	VRMS	V	420	
Maximum DC blocking Voltage	VDC	V	600	
Average Rectified Output Current @60Hz sine wave, R-load	With heatsink T <sub>c</sub> =105°C	IO	A	25.0
	Without heatsink T <sub>a</sub> =25°C			4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T <sub>j</sub> =25°C	IFSM	A	360	
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	538	
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	Tor	kg·cm	8	



# D25JAU60

## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V <sub>F</sub>	V	IFM=12.5A	0.80	0.88	0.92
DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	μA	T <sub>j</sub> =25°C	-	0.005	5
			T <sub>j</sub> =125°C	-	-	50
Junction capacitance	C <sub>j</sub>	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	85	190	380

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

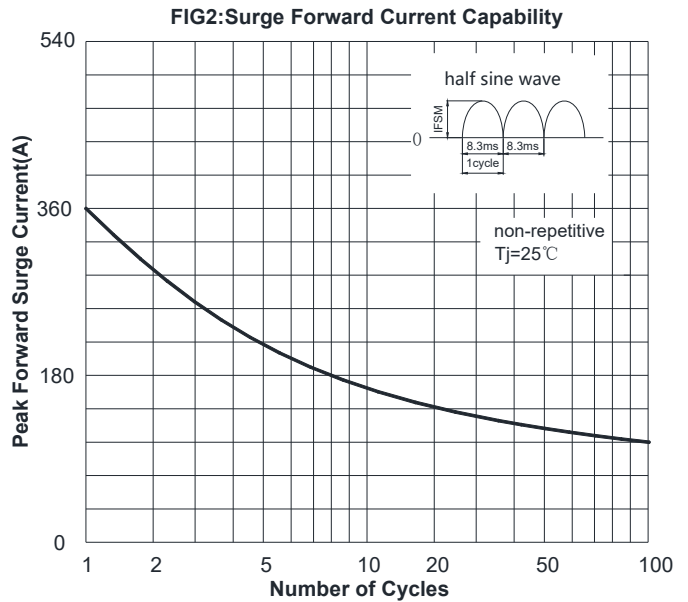
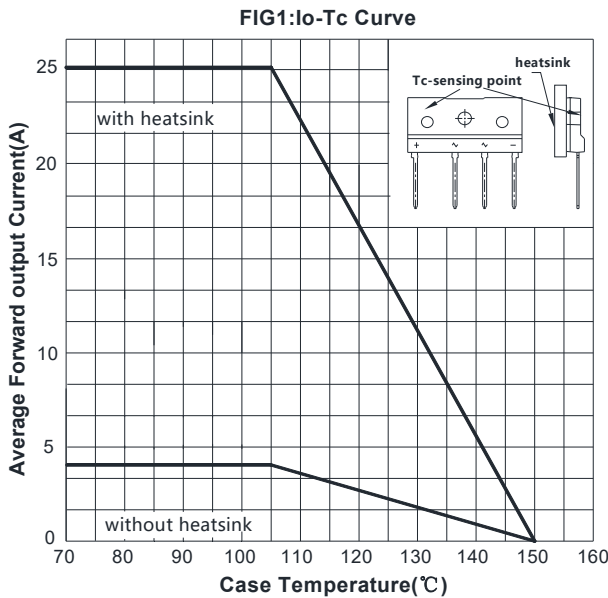
PARAMETER		SYMBOL	UNIT	D25JAU60
Thermal Resistance	Between junction and ambient, Without heatsink	R <sub>θJ-A</sub>	°C/W	18.0
	Between junction and lead, With heatsink	R <sub>θJ-L</sub>		2.5
	Between junction and case, With heatsink	R <sub>θJ-C</sub>		1.0

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

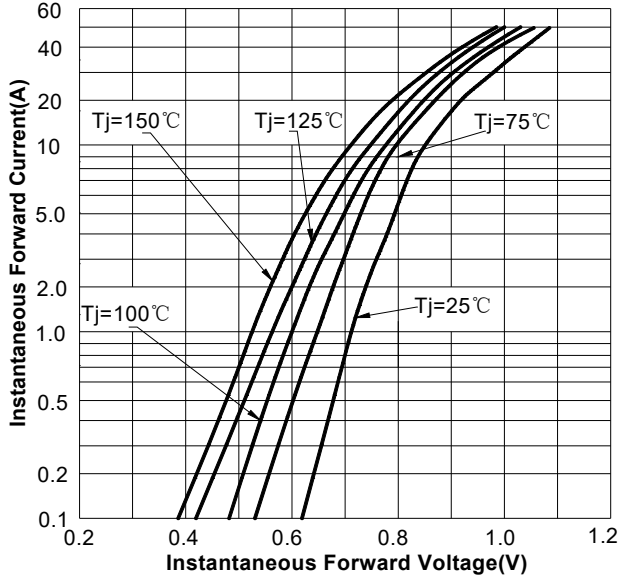
## ■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D25JAU60	B1	Approximate 4.3	15	750	1500	Tube

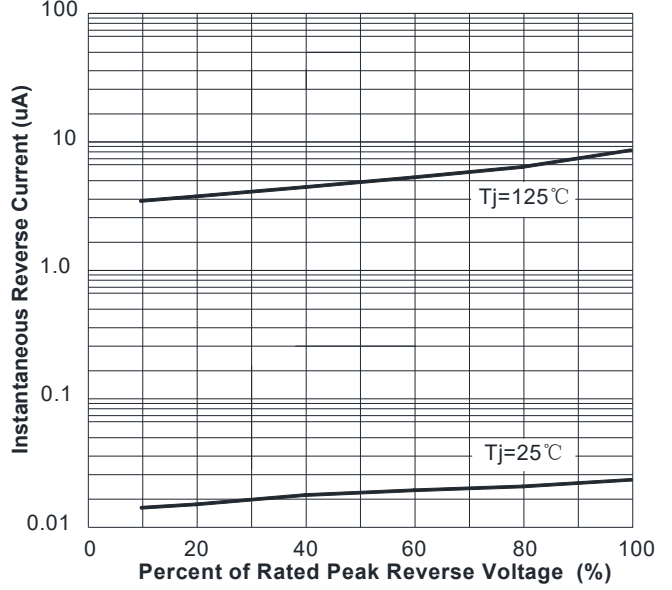
## ■ Characteristics(Typical)



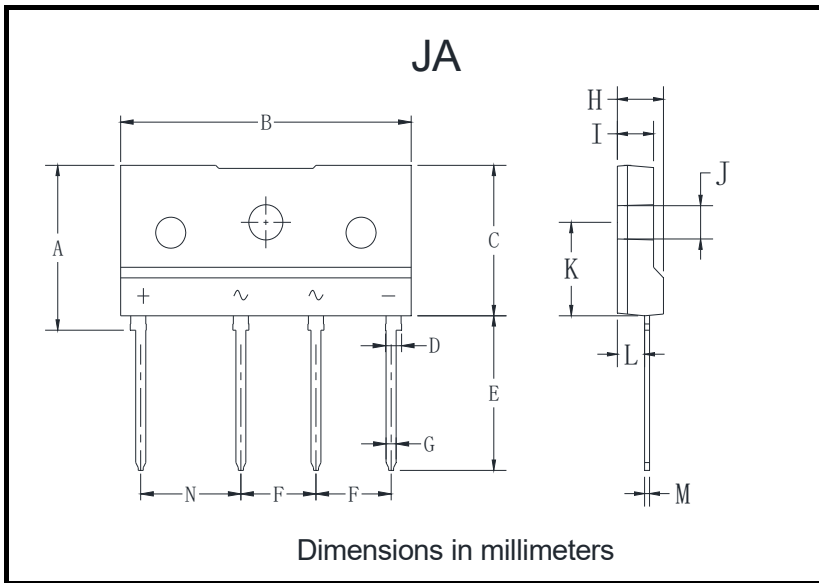
**FIG3: Typical Forward Voltage**



**FIG4: Typical Reverse Characteristics**



■ **Outline Dimensions**



JA		
Dim	Min	Max
A	15.6	16.2
B	28.7	29.3
C	14.2	14.8
D	1.5	1.7
E	14.6	15.2
F	7.3	7.7
G	0.9	1.1
H	4.3	4.9
I	3.3	3.9
J	3.1	3.4
K	8.7	9.3
L	2.5	2.9
M	0.4	0.6
N	9.8	10.2



## D25JAU60

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