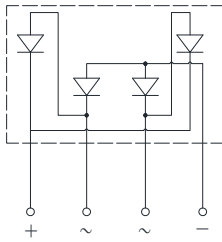
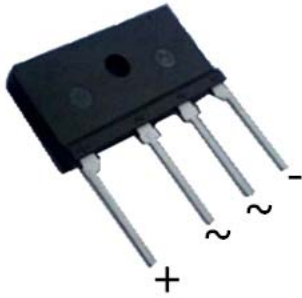


Bridge Rectifiers



Features

- UL recognition, file #E230084
- Glass passivated chip junction
- 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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100
Device marking code			D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load,	With heatsink $T_c = 100^\circ\text{C}$	IO	A	25.0					
	Without heatsink $T_a = 25^\circ\text{C}$			3.5					
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25^\circ\text{C}$	IFSM	A	300						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$			600						
Current squared time @1ms $\leq t \leq 8.3$ ms $T_j=25^\circ\text{C}$, rating of per diode	I^2t	A ² S	373.5						
Storage temperature	Tstg	°C	-55 ~ +150						
Junction temperature	T_j	°C	-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2						
Mounting torque @Recommend torque: 5kg·cm	Tor	kg·cm	8						



D25JA05 THRU D25JA100

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100	
Maximum instantaneous forward voltage drop per diode	V _F	V	IFM=12.5A							1.0	
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	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							100	

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

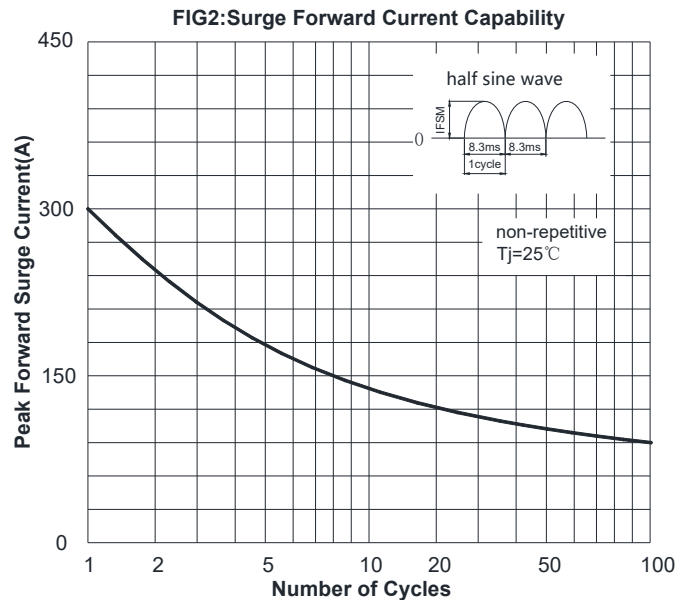
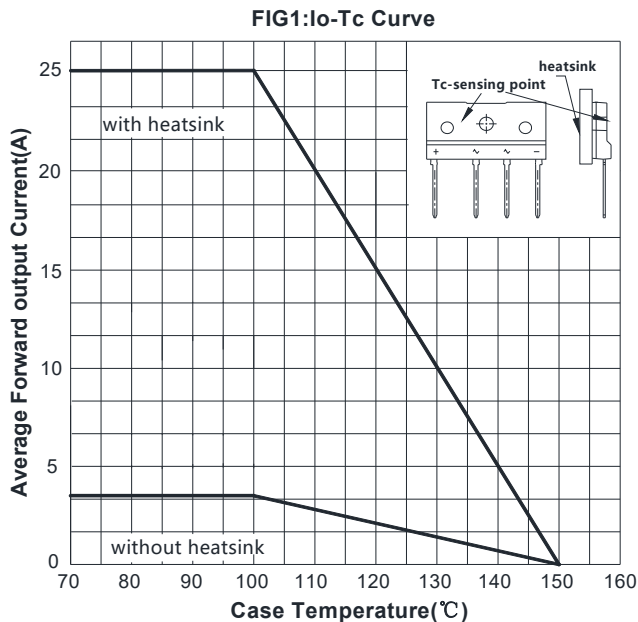
PARAMETER		SYMBOL	UNIT	D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100	
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W							22.0	
	Between junction and case, With heatsink	R _{θJ-C}								1.0	

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
D25JA05 ~ D25JA100	B1	Approximate 4.3	15	750	1500	Tube

■ Characteristics(Typical)





D25JA05 THRU D25JA100

FIG3: Typical Forward Voltage

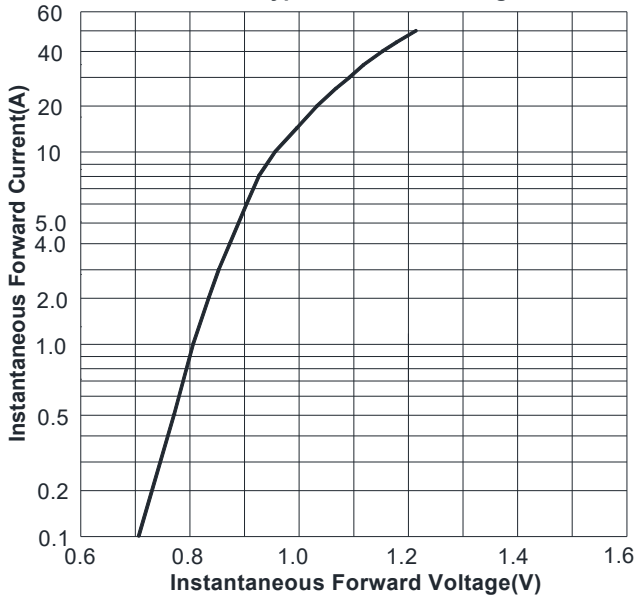
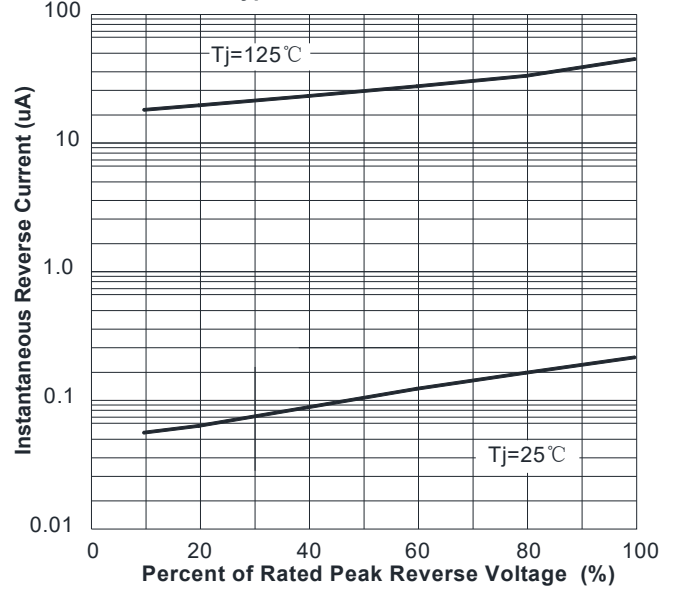
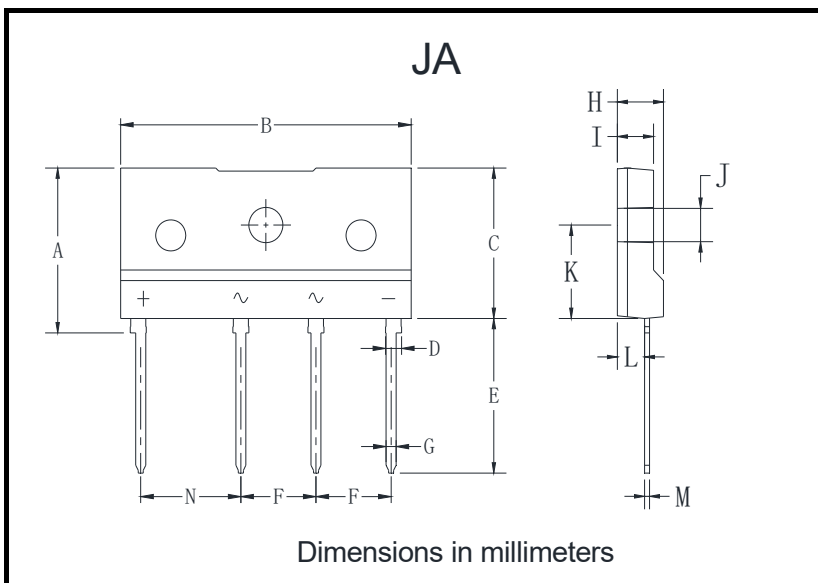


FIG4: Typical Reverse Characteristics



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



D25JA05 THRU D25JA100

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