

■ 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°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°C	I _O	A	25.0					
	Without heatsink T _a =25°C			3.5					
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25°C	IFSM	A	300						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25°C			600						
Current squared time @1ms≤t≤8.3ms T _j =25°C, rating of per diode	I ² t	A ² S	373.5						
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	Tor	kg·cm	8						

■ **ELECTRICAL CHARACTERISTICS** ($T_a=25^{\circ}\text{C}$ 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	I _{FM} =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	ρF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	100						

■ **THERMAL CHARACTERISTICS** ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

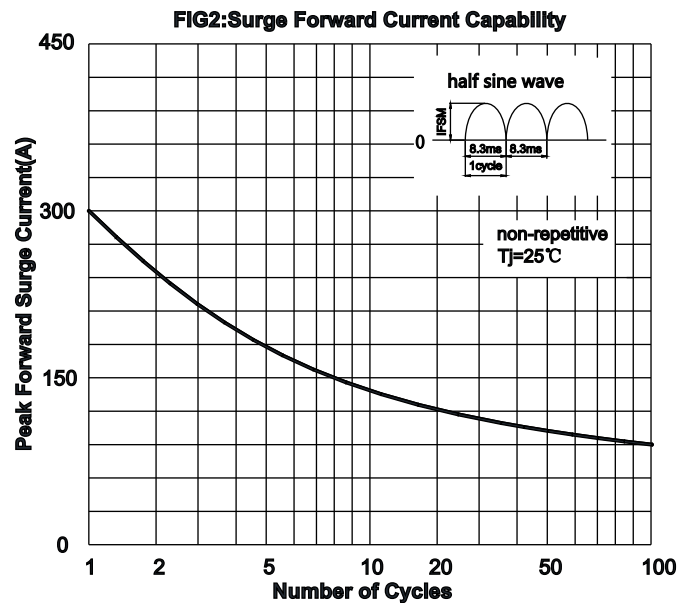
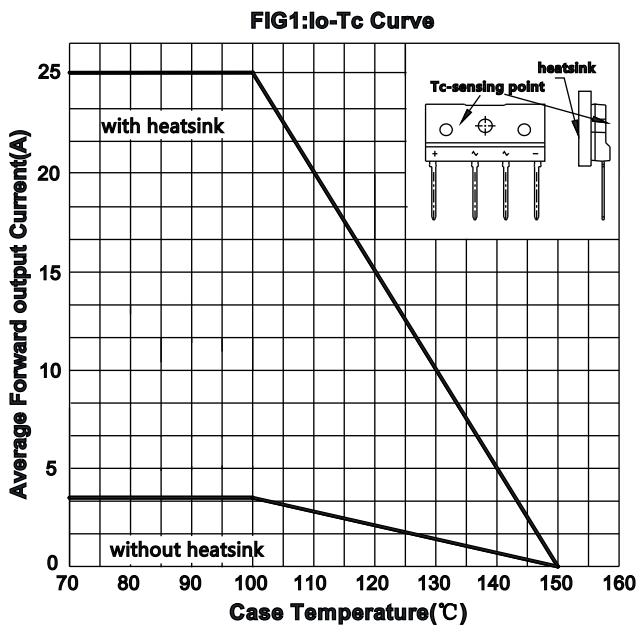
PARAMETER		SYMBOL	UNIT	D25JA05	D25JA10	D25JA20	D25JA40	D25JA60	D25JA80	D25JA100
Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	22.0						
	Between junction and case, With heatsink	R _{θJ-C}		1.0						

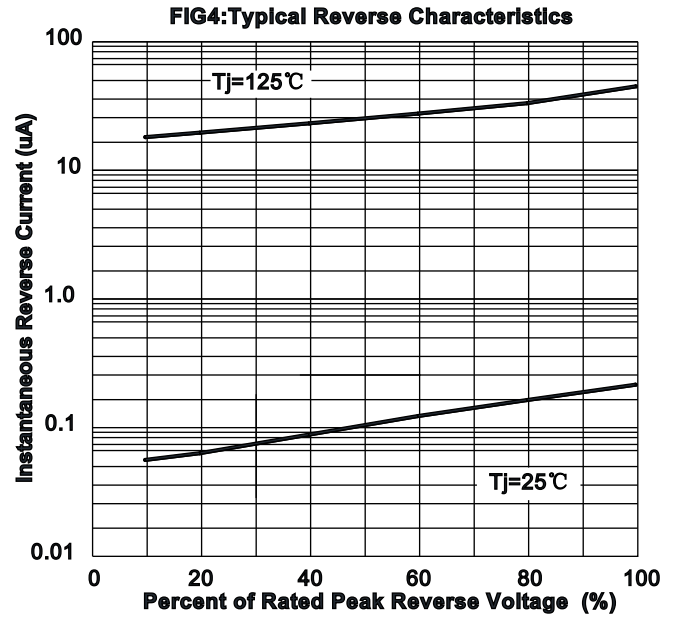
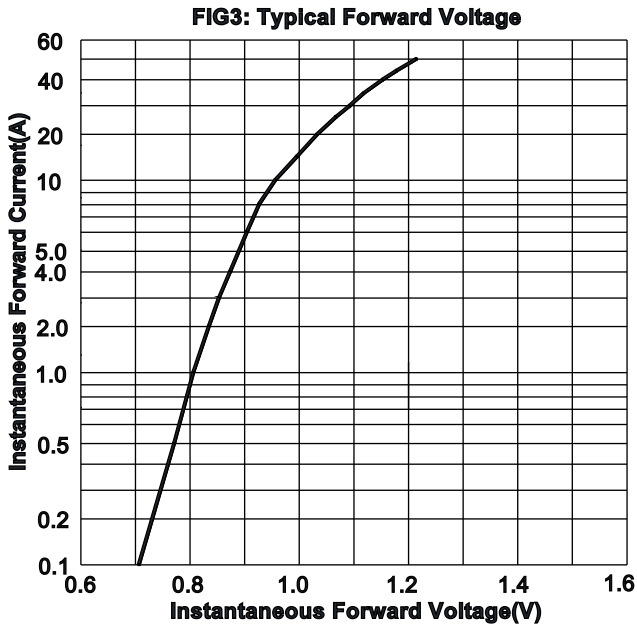
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■ **PACKAGING INFORMATION**

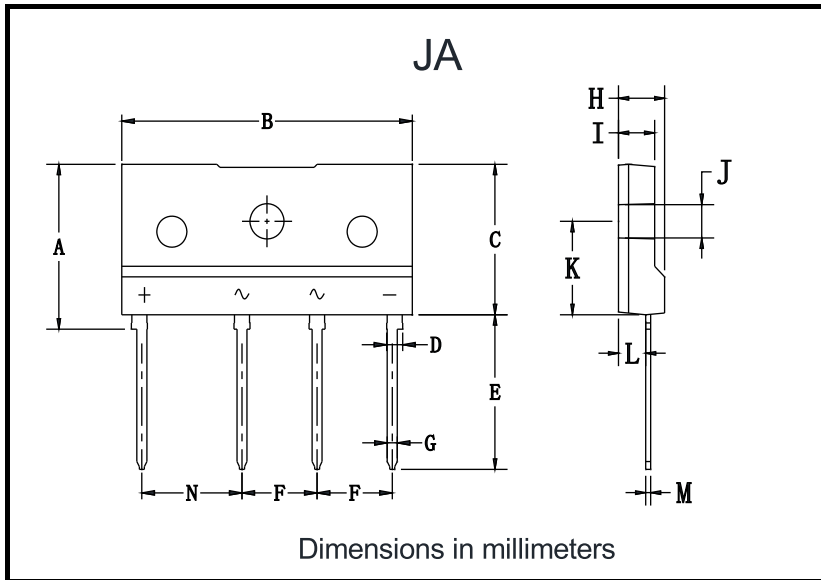
PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
D25JA05 ~ D25JA100	B1	Approximate 4.3	15	750	1500	Tube

■ **CHARACTERISTICS (TYPICAL)**





■ **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