

Three Phase Bridge Rectifiers

Features

- UL recognition, file #E230084
- Thin single in-line package
- Glass passivated chip junction
- 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 Server、Frequency converter、Industrial power supply.

Mechanical Data

- **Package:** 3GBJ
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **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	DG25NA60	DG25NA80	DG25NA100	DG25NA120
Device marking code				DG25NA60	DG25NA80	DG25NA100	DG25NA120
Maximum Repetitive Peak Reverse Voltage		VRRM	V	600	800	1000	1200
Maximum RMS Voltage		VRMS	V	420	560	700	840
Maximum DC blocking Voltage		VDC	V	600	800	1000	1200
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =125°C	IO	A	25.0			
	Without heatsink Ta =25°C			4.0			
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C		IFSM	A	400			
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				800			
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		I²t	A²s	664			
Storage temperature		Tstg	°C	-55 ~ +150			
Junction temperature		Tj	°C	-55 ~ +150			
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5			
Mounting torque @Recommend torque: 5kg·cm		Tor	kg·cm	8			



DG25NA60 THRU DG25NA120

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	DG25NA60	DG25NA80	DG25NA100	DG25NA120
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =12.5A	1.05			
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25°C	5			
			T _j =125°C	200			
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	140			

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

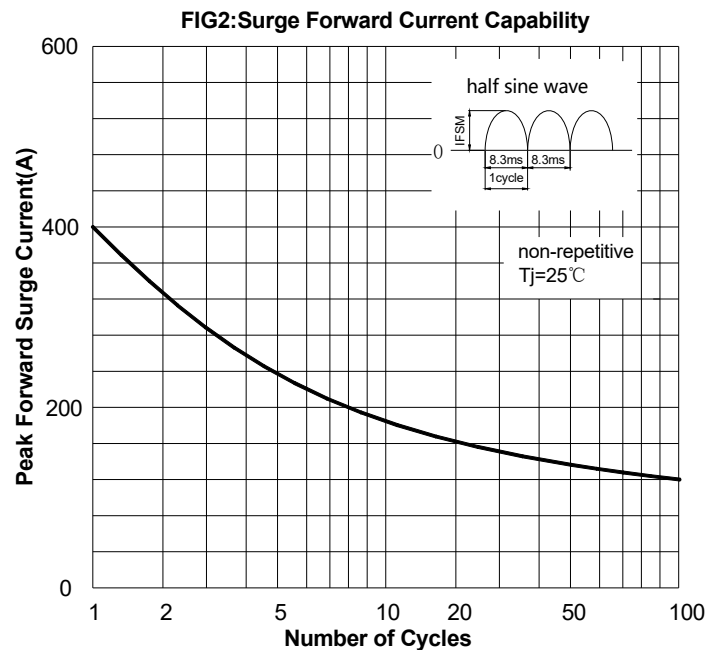
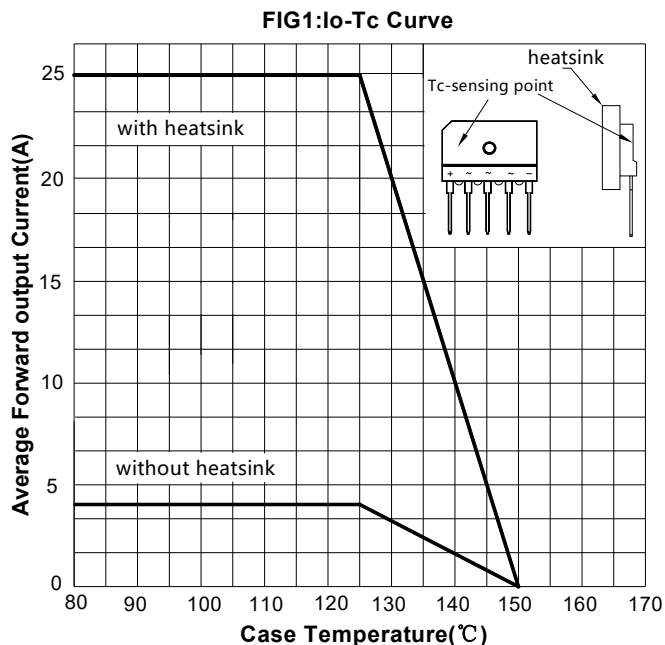
PARAMETER		SYMBOL	UNIT	DG25NA60	DG25NA80	DG25NA100	DG25NA120
Typical Thermal Resistance	Between junction and ambient, Without heatsink	R _{θJ-A}	°C/W	18			
	Between junction and case, With heatsink	R _{θJ-C}		0.5			

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

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
DG25NA60 ~ DG25NA120	A1	Approximate 10	100	100	1000	BOX
DG25NA60 ~ DG25NA120	B1	Approximate 10	10	/	1000	TUBE

■ Characteristics (Typical)





DG25NA60 THRU DG25NA120

FIG3: Typical Forward Voltage

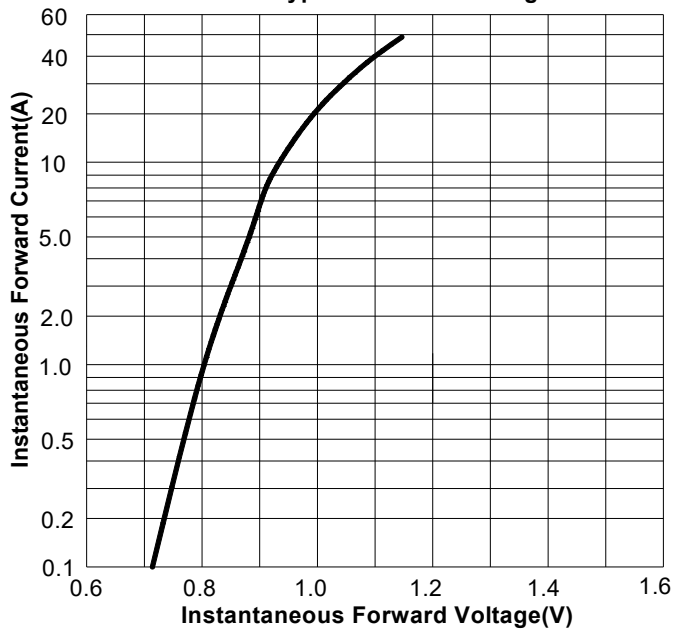
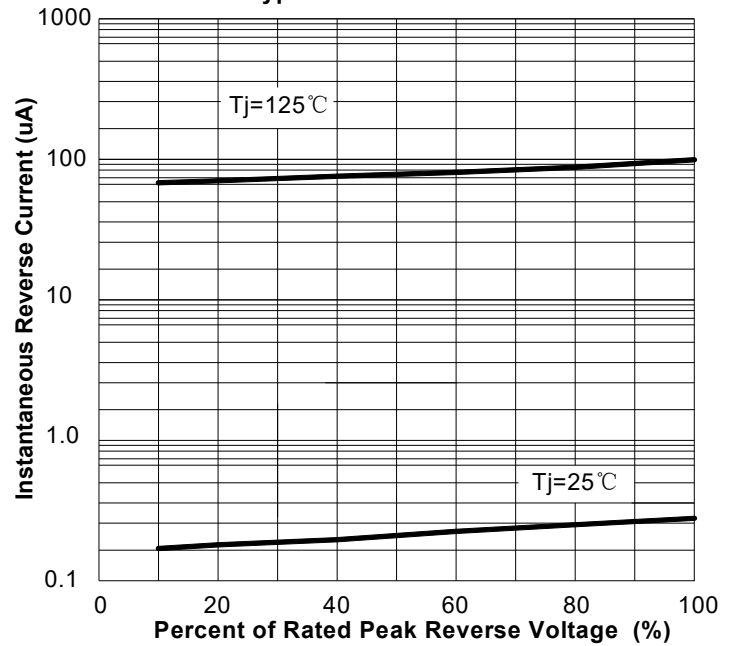
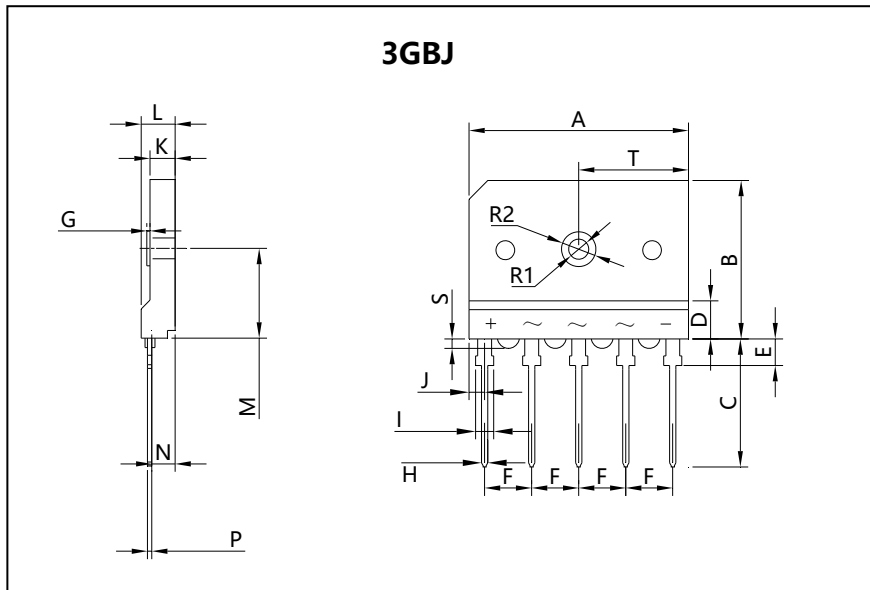


FIG4: Typical Reverse Characteristics



■ Outline Dimensions



3GBJ		
Dim	Min	Max
A	34.7	35.3
B	24.7	25.3
C	19.5	20.1
D	5.1	5.6
E	3.9	4.5
F	7.2	7.8
G	0.4	0.6
H	0.9	1.1
I	2.0	2.4
J	2.2	2.6
K	3.8	4.2
L	5.2	5.6
M	13.9	14.5
N	3.5	3.9
P	0.60	0.80
R1	2.7	3.7
R2	5.3	6.3
S	1.3	1.9
T	17.2	17.8



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