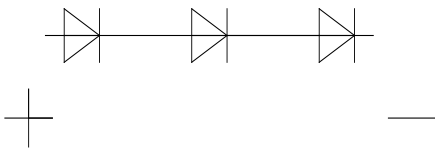
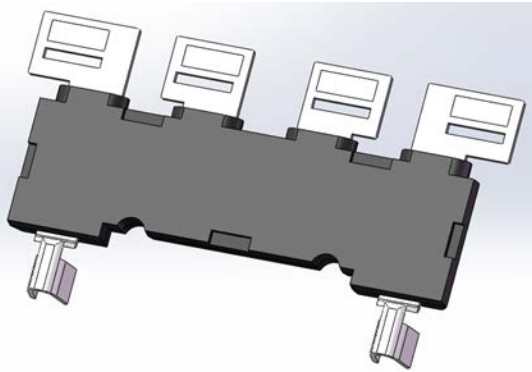


Schottky Bypass Diode Module



Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C

Typical Applications

Photovoltaic solar cell protection schottky rectifier

Mechanical Data

- **Package:** GF009
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

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GFMK3045T
Device marking code			GFMK3045T
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, $T_a=40^\circ\text{C}$	IO	A	30
Surge(Non-repetitive)Forward Current @60Hz sine wave, 1 cycle, $T_j=25^\circ\text{C}$	IFSM	A	275
Current Squared Time @1ms \leq t<8.3ms $T_j=25^\circ\text{C}$, Rating of per diode	I^2t	A^2S	315
Storage Temperature	T_{stg}	$^\circ\text{C}$	-55 ~+150
Junction Temperature	T_j	$^\circ\text{C}$	-55 ~+200

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GFMK3045T
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =30A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM}	μA	V _{RM} =V _{RRM}	100

■ Thermal Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GFMK3045T
Thermal Resistance	R _{θJ-C}	$^\circ\text{C}/\text{W}$	1.6

Note

(1)Thermal resistance from Between junction and case, On glass-epoxi substrate.

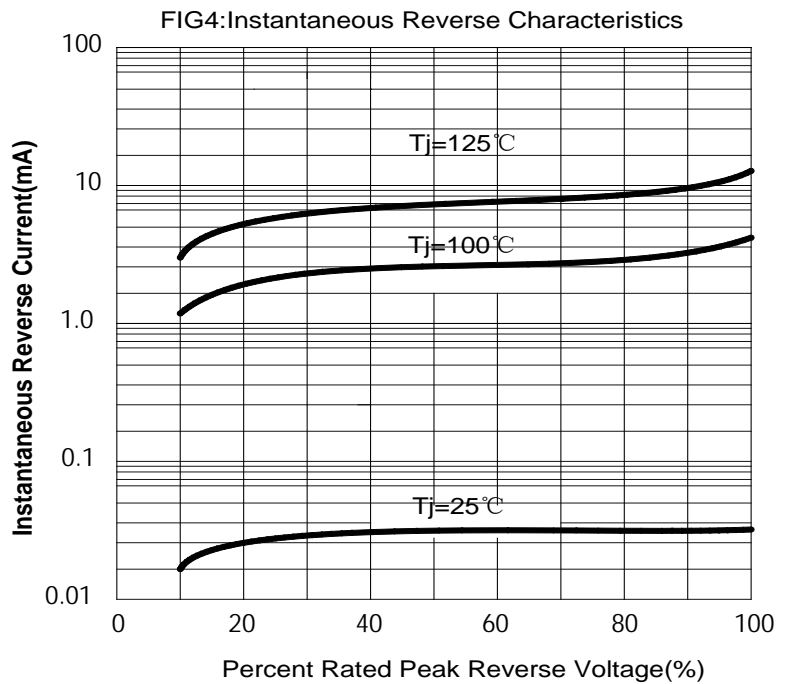
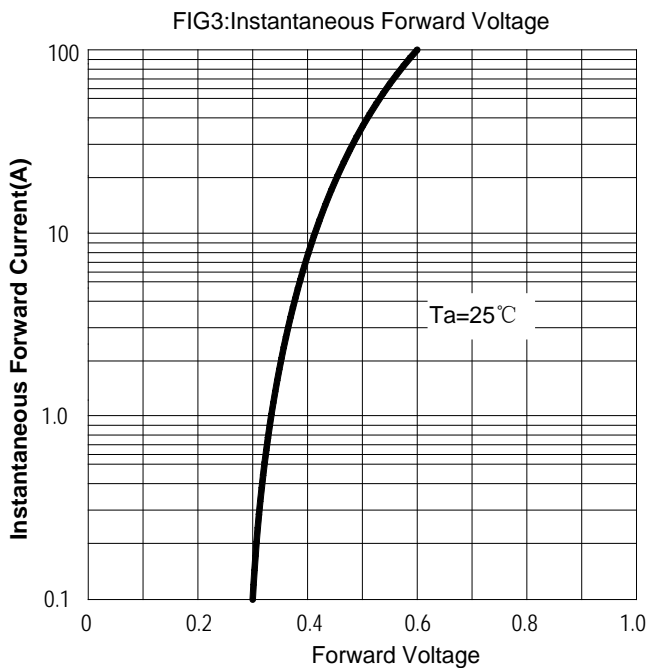
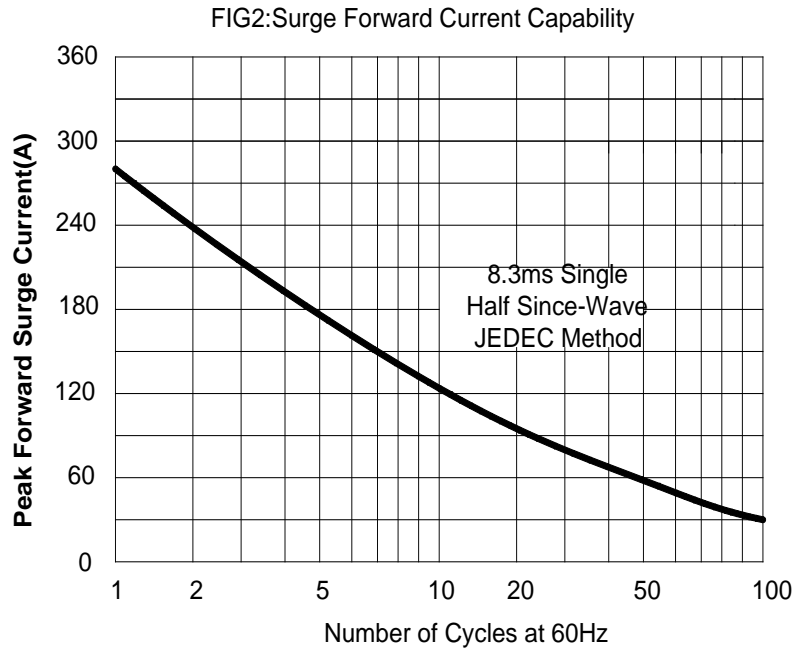
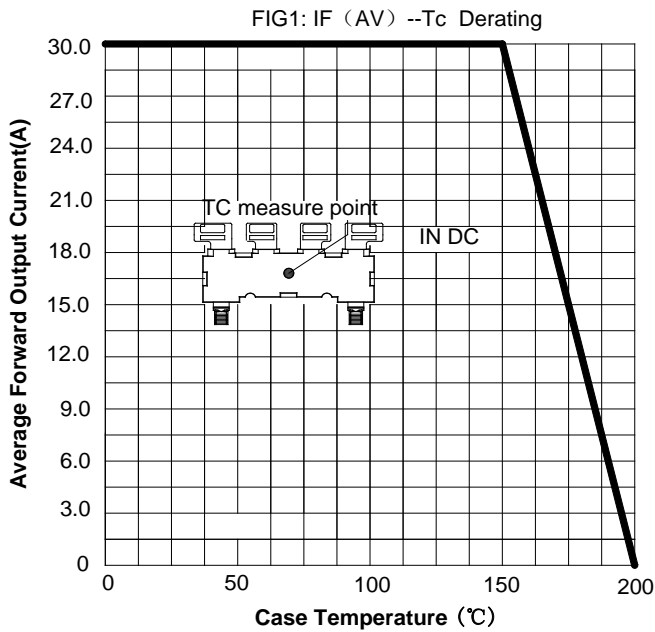


GFMK3045T

Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GFMK3045T	Approximate 17.2	40	200	1000	In Bulk

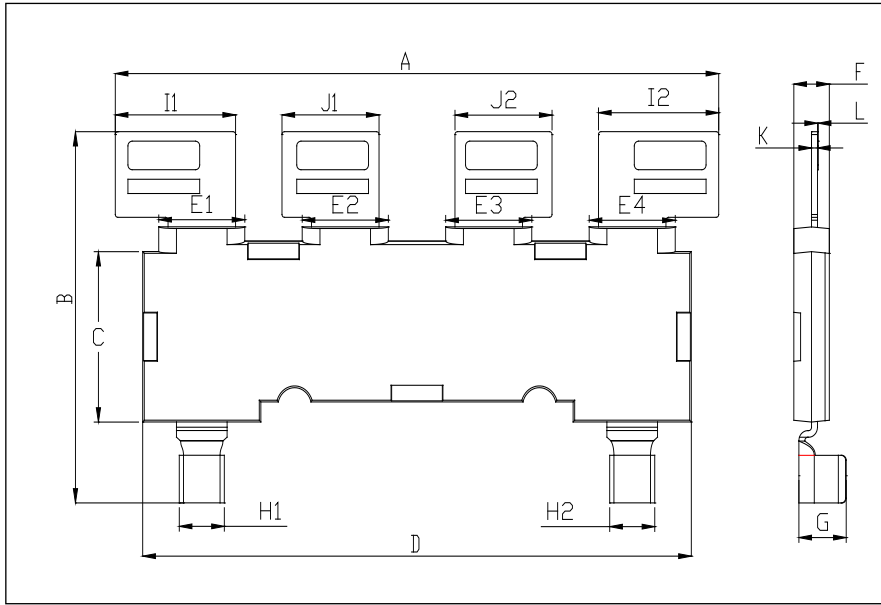
Characteristics (Typical)





GFMK3045T

■Outline Dimensions (in millimeters)



GF009-4		
Dim	Min	Max
A	71.2	71.8
B	38.7	39.3
C	17.75	18.05
D	64.85	65.15
E1	10.05	10.35
E2	10.05	10.35
E3	10.05	10.35
E4	10.05	10.35
F	4.05	4.35
G	5.4	6.0
H1	5.14	5.54
H2	5.14	5.54
I1	14.1	14.4
I2	14.1	14.4
J1	11.35	11.65
J2	11.35	11.65
K	0.6	0.8
L	0.15	0.25



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