



## GFMK3045

# 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

### Typical Applications

Photovoltaic solar cell protection schottky rectifier

### Mechanical Data

**Package:** GF025

Molding compound meets UL 94 V-0 flammability rating,

**Terminals:** Tin plated leads, solderable per J-STD-002 and JESD 22-B102

**Polarity:** As marked

### Maximum Ratings (T<sub>a</sub>=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GFMK3045
Device marking code			GFMK3045
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T <sub>a</sub> =25°C	I <sub>O</sub>	A	30
Surge(Non-re	t y	OM	



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

PARAMETER	SYMBOL	UNIT	GFMK3045
Thermal Resistance 1	R J-C	°C/W	1.5

### Note

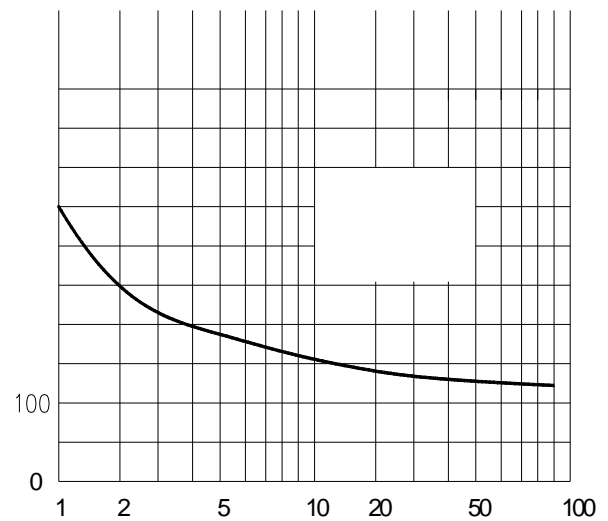
(1) Thermal resistance from Between junction and case, On glass-epoxi substrate.

## Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GFMK3045	Approximate 4.0	30	600	2400	Tube

## Characteristics (Typical)

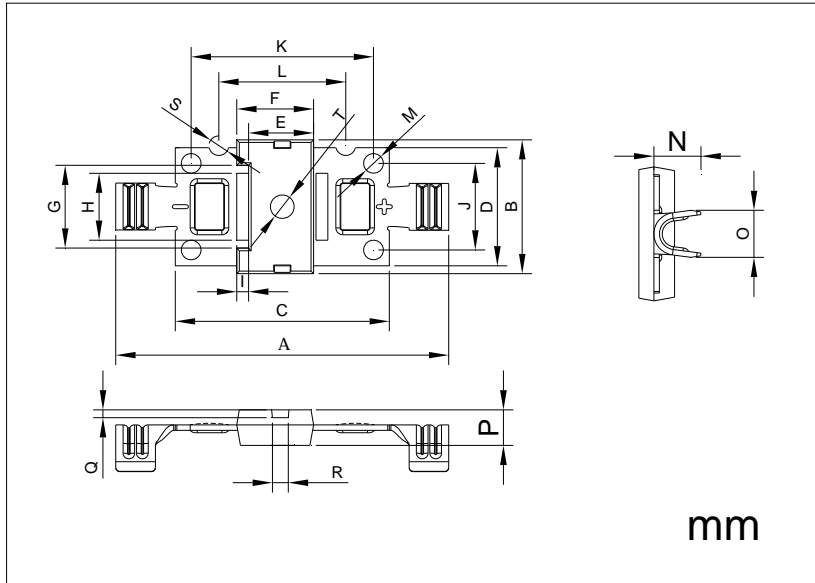
FIG2:Surge Forward Current Capability





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## Outline Dimensions (in millimeters)



DIM	MM		NOTE
	MIN	MAX	
A	41.5	42.5	
B	16.5	17.5	
C	26.5	27.5	
D	14.5	15.5	
E	7.9	8.5	
F	9.4	10	
G	10.50REF		
H	8.2	8.8	
I	1.2	1.8	
J	10.7	11.3	
K	22.7	23.3	
L	15.7	16.3	
M	2.35	2.65	
N	5.65	6.25	
O	5.72	6.22	
P	4.4	4.6	
Q	0.7	1.3	
R	1.7	2.3	
S	2.3	2.7	
T	2.7	3.3	



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### Disclaimer

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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of ' á i ) n u m m e i