



## GFMK4045C

# 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)

	SYMBOL	UNIT	
Device marking code			GFMK4045C
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, T <sub>a</sub> =25	I <sub>O</sub>	A	40
Surge(Non-repetitive)Forward Current @60Hz sine wave, 1 cycle, T <sub>j</sub> =25	IFSM	A	650
Current Squared Time @1ms t<8.3ms T <sub>j</sub> =25 , Rating of per diode		I <sup>2</sup>	



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## Thermal Characteristics ( $T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GFMK4045C
Thermal Resistance 1	R J-C	/W	1.5

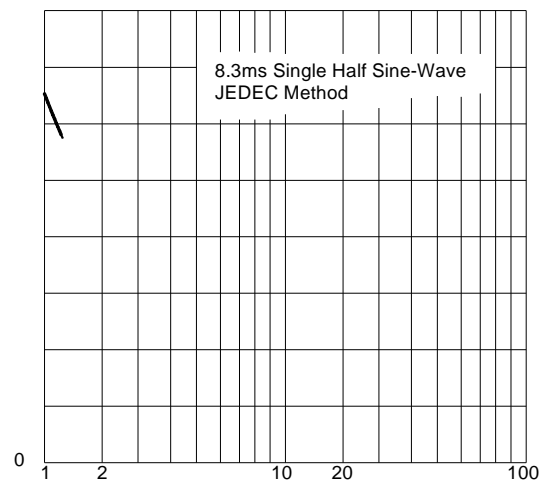
### Note

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

## Ordering Information (Example)

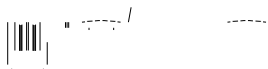
PREFERRED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GFMK4045C	Approximate 4.0	30	600	2400	Tube

## Characteristics (Typical)





**Outline Dimensions** (in millimeters)





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