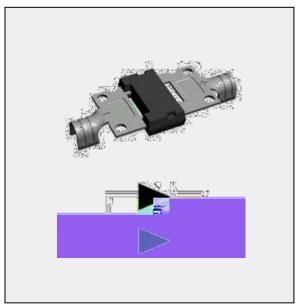


GFMK4045C

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 (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GFMK4045C
Device marking code			GFMK4045C
Repetitive Peak Reverse Voltage	VRRM	V	45
Average Rectified Output Current @60Hz sine wave, R-load, Ta=25	IO	A	40
Surge(Non-repetitive)Forward Current @60Hz sine wave, 1 cycle, Tj=25	IFSM	A	650
Current Squared Time @1ms t<8.3ms Tj=25 , Rating of per diode	l ² t	A ² S	1750
Storage Temperature	Tstg		-55 ~+150
Junction Temperature IN DC Forward Mode-Forward Operations without reverse bias, t 1 h (Fig. 1) 1	Тј		-55 ~+200

Note

(1) Meets the requirements of IEC 61215 Ed. 2 bypass diode thermal test.

Electrical Characteristics (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GFMK4045C
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=40A	0.51
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM1	mA	VRM= ^V RRM Ta=25	0.12
	IRRM2	mA	VRM=VRRM Ta=100	13
	I _{RRM3}	mA	VRM=VRRM Ta=125	60



GFMK4045C

Thermal Characteristics (Ta=25 Unless otherwise specified)

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

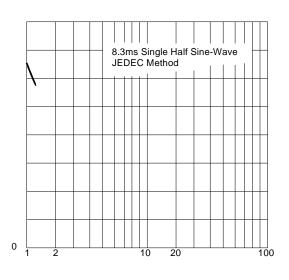
Note

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

Ordering Information (Example)

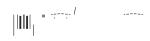
PREFERRED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GFMK4045C	Approximate 4.0	30	600	2400	Tube

Characteristics (Typical)





Outline Dimensions (in millimeters)





GFMK4045C

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

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 with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website http:// www.frxelec.com, or consult your nearest Yangjie's sales office for further assistance.