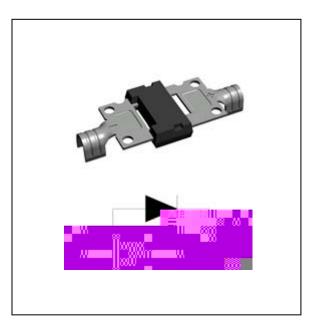


Schottky Bypass Diode Module



Features

reliability

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

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	А	40
Surge(Non-repetitive)Forward Current @60Hz sine wave, 1 cycle, Tj=25	IFSM	А	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

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=VRRM Ta=25	0.12
	IRRM2	mA	VRM=VRRM Ta=100	13
	IRRM3	mA	VRM=VRRM Ta=125	60

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



Thermal Characteristics (Ta=25 Unless otherwise specified)

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

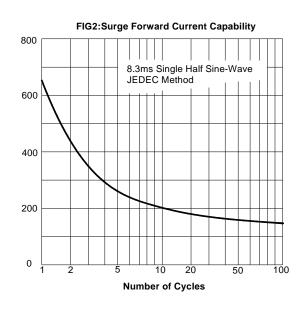
Note

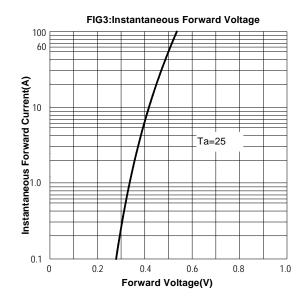
(1) Thermal resistance from Between junction and case, On glass-epoxi substrate.

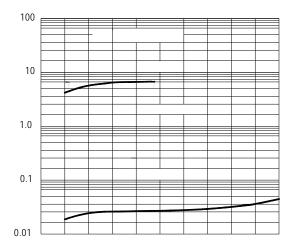
Ordering Information (Example)

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)

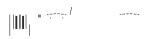








Outline Dimensions (in millimeters)





Disclaimer

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