



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

I_F V_F I_R V_R

PARAMETER	SYMBOL	UNIT	IO A
Surge(Non-repetitive) Forward Current @ 60Hz sine wave , 1 cycle $T=1s$	I_{FSM}	A	350
Current Squared Time @ $1ms \leq t < 8.3ms$ $T_j=25^\circ C$, Rating of per diode	I^2t	A^2S	505
Storage Temperature	T_{stg}		$-55 \sim +150$
Junction Temperature IN DC Forward Mode-Forward Operations without reverse bias, $t \leq 1h$ (Fig. 1) $1 \sim$	T_j		$-55 \sim +200$

Note

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

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GFMK3045P
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	$V_{RM}=V_{RRM}$	

The thermal resistance R_{JA} of the module	1.5	$W/^\circ C$	
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Note

(1) The thermal resistance R_{JA} is between junction and case, on glass substrate



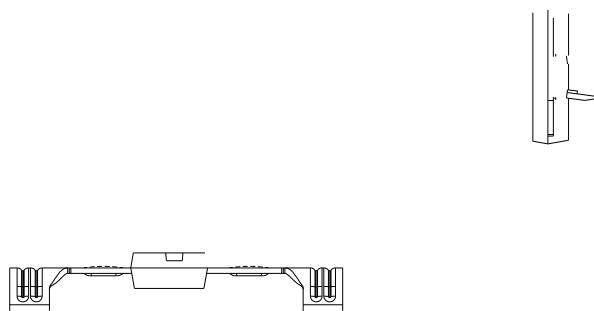
GFMK3045P

■Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GFMK3045P	Approximate 4.0	30	600	2400	Tube



■Outline Dimensions (in millimeters)





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