



#### **Features**

- Schotty Barrier hight diode;
- Low thermal resistance;
- Lower forward voltage drop, low power loss;
- Isolate Package design, ideal for heat dispersion;
- High forward current capability;
- Excellent anti-humidity;
- Low profile package;
- High forward surge capability;

#### **Mechanical Data**

Case: GFM;

• Terminals: Copper;

High temperature soldering guaranteed;
 Heated-tool welding 260℃,10seconds

• Marking: As marked on product;

#### **Order Information**

Package	GFM	
PVC tube	30pcs/ tube	
Inner Box	300pcs/ Inner box	
Carton	1500pcs/ Carton	

### **Typical Applications**

For the protection of solar cell bypass box.
Using DC forward current without reverse bias.

## **Maximum Ratings and Electrical Characteristics**

Ratings at 25℃ ambient temperature unless otherwise specified.

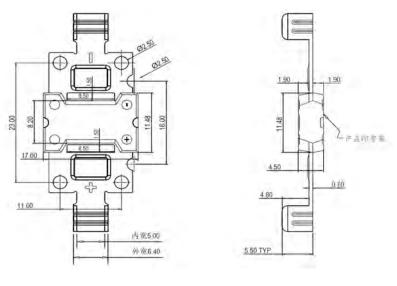
For capacitive load, derate current by 20%.

Parameter		Symbol	GF3545	Unit
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	45	Volt
Maximum working peak reverse voltage		V <sub>RWM</sub>	45	Volt
Average rectified output current @ 60Hz sine wave, Ta=25℃		Io	35	Amps
Non-Repetitive Peak forward surge current @ 60Hz, single sine-wave load		I <sub>FSM</sub>	450	Amps
Rating for fusing (t<8.3ms)		l <sup>2</sup> t	840	A <sup>2</sup> sec
Instantaneous forward voltage drop	@IF=10A @IF=20A @IF=30A @IF=35A	V <sub>F</sub>	0.41 Typ. 0.46 max. 0.46 Typ. 0.51 max. 0.51 Typ. 0.56 max. 0.53 Typ. 0.58 max.	Volt
Reverse Current at Rated DC reverse Voltage	<b>@</b> Tj=25℃	I <sub>R</sub>	100 Typ. 500 max.	μΑ
	@Tj=125℃	I <sub>R</sub>	10.00 Typ. 50.00 max.	mA
Typical capacitance (1.0 MHz and Applied reverse Voltage of 5.0V D.C)		C <sub>j</sub>	1400	pF
Typical thermal resistance		R <sub>eJ-c</sub>	1.5	°C/W
Storage Temperature		T <sub>STG</sub>	-55 to +150	င
Junction Temperature IN DC Forward Mode, without reverse bias, t ≤1 h		T <sub>J</sub>	-55 to +150	C





RoHS COMPLIANT



Case: GFM

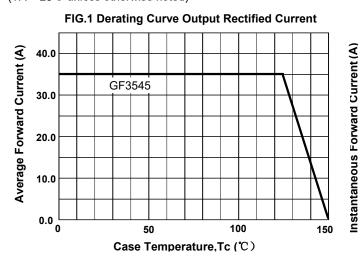
Dimensions in milimeters

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## **Ratings and Characteristics Curves**

(TA = 25<sup>°</sup>C unless otherwise noted)



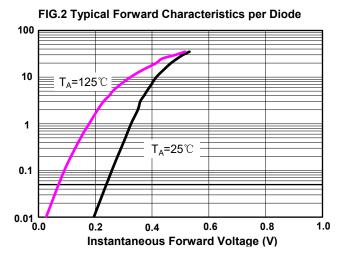


FIG.3 Maximum Non-Repetitive Peak Forward Surge Current per Diode

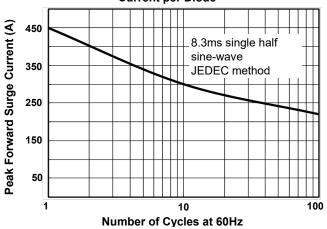


FIG.4 Typical Reverse Characteristics per Diode

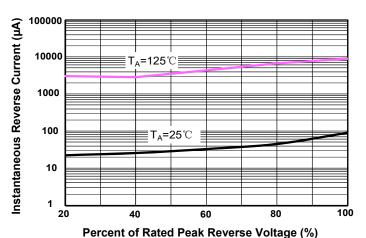
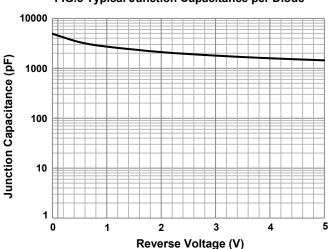


FIG.5 Typical Junction Capacitance per Diode



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