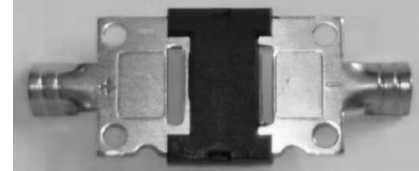


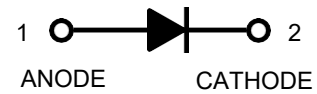
Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Salar Bypass Inverse-polarity Protection Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version



Ordering Information

Part No.	Packing	Remark
GF3045	Tube	

Limiting Values (Absolute Maximum Rating)

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Item	Symbol	Unit	Conditions	GF3045
Repetitive Peak Reverse Voltage	VRRM	V		45
Average Rectified Output Current	I _O	A	60Hz sine wave, R- load, T _a =25°C	30
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz sine wave, 1 cycle, T _a =25°C	300
Current Squared Time	I ² _t	A ² s	1ms ≤ t < 8.3ms T _j =25°C	375
Storage Temperature	T _{stg}	°C		-55 ~ +150
Junction Temperature	T _j	°C	IN DC Forward Mode-Forward Operations, without reverse bias, t ≤ 1 h (Fig. 1) ①	-55 ~ + 200

Item	Symbol	Unit	Test Condition		Max
Peak Forward Voltage	V _{FM}	V	I _{FM} = 30A		0.55
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25°C	0.1
	I _{RRM2}			T _a =100°C	15
Thermal Resistance(Typical)	R _{θJ-c}	°C/W	Between junction and case		0.8

Note: ① Meets the requirements of IEC 61215 Ed. 2 bypass diode thermal test.

Characteristics(Typical)

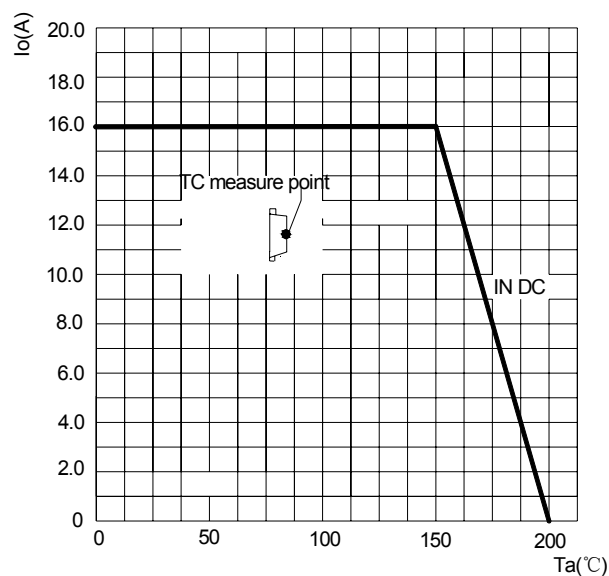


Fig.1: IF(AV)--Tc Derating

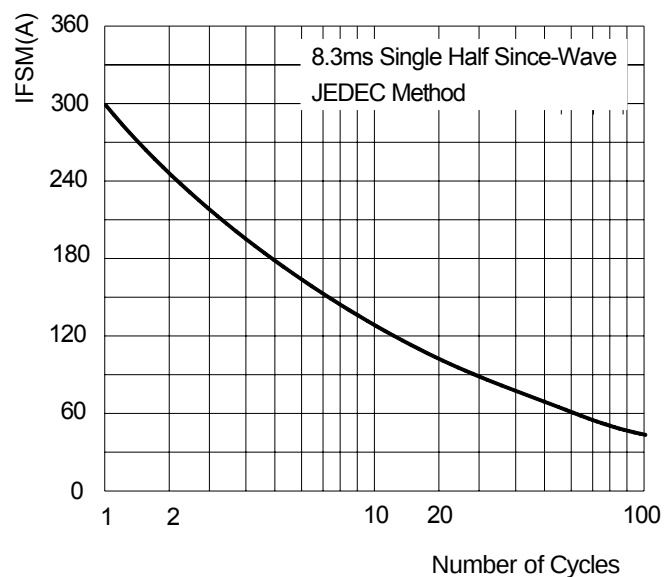


Fig.2: Surge Forward Current Capability

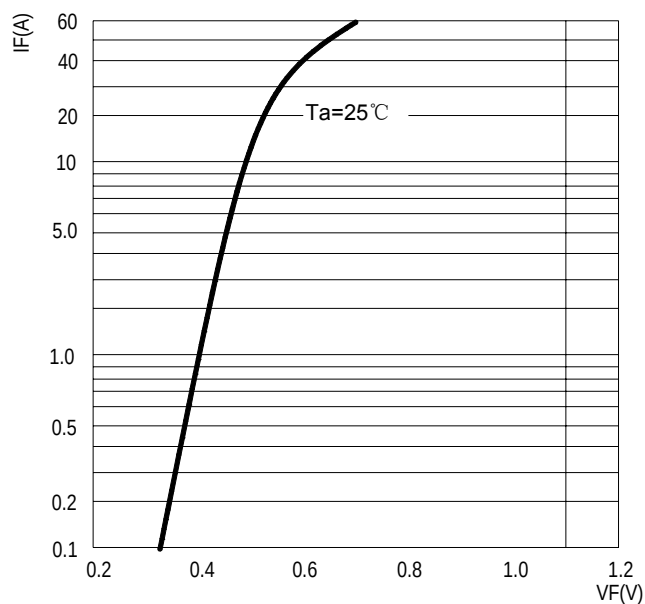


Fig.3: Instantaneous Forward Voltage

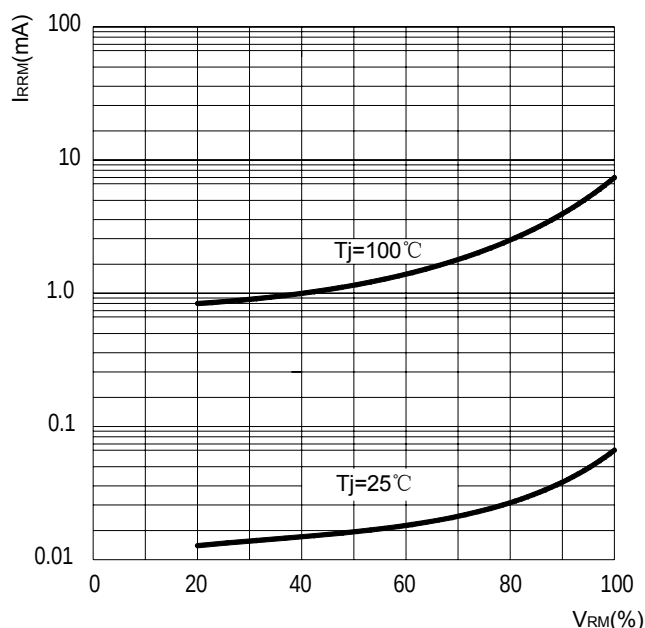
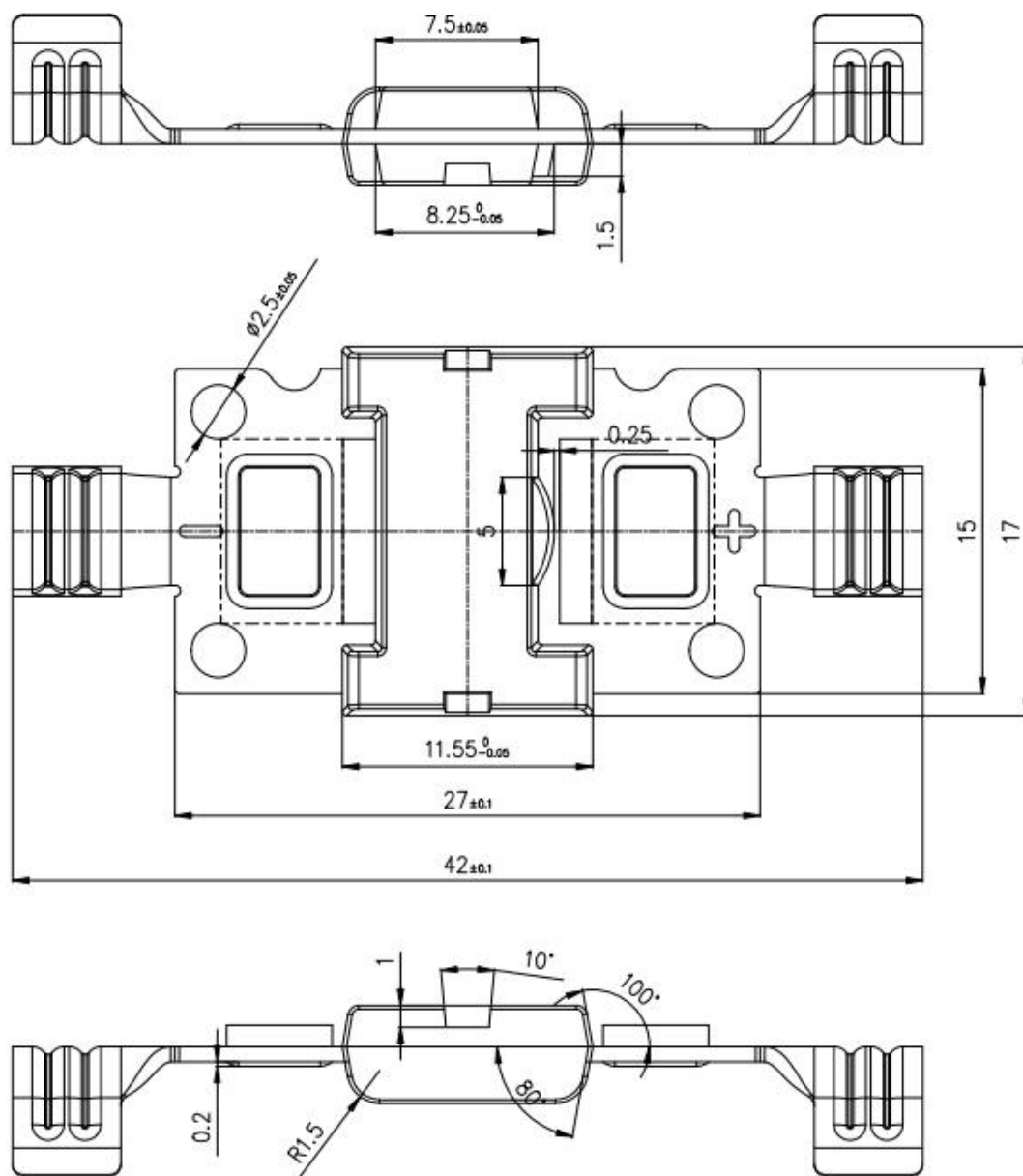


Fig.4: Typical Reverse Characteristics

Outline and Dimensions



Outline and Dimensions

