



Schottky Diodes

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
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260

Typical Applications

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

Mechanical data

- **Package:** GFS-T
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked

■ **Maximum Ratings** ($T_a=25^\circ\text{C}$ / $f=60\text{Hz}$ half sine-wave, R_{load} , T / I_o)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25^\circ\text{C}$	I_{FSM}	A	300
Current Squared Time @1ms≤t<8.3ms $T_j=25^\circ\text{C}$	I^2t	A^2s	375
Storage Temperature	T_{stg}		-55 ~+150
Junction Temperature IN DC Forward Mode-Forward Operations without reverse bias, $t \leq 1\text{ h}$ (Fig. 1)	T_j		-55 ~+200

NOTE

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

■ **Electrical Characteristics** $T_a=25^\circ\text{C}$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS
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GFS2045

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	GFS2045
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	$^{\circ}W$	1.3

■ Ordering Information (Example)

PREFERED P/N	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GFS2045	Approximate 0.9	80	4000	12000	Tube

■ Characteristics (Typical)

FIG1: $I_o - T_c$ Curve

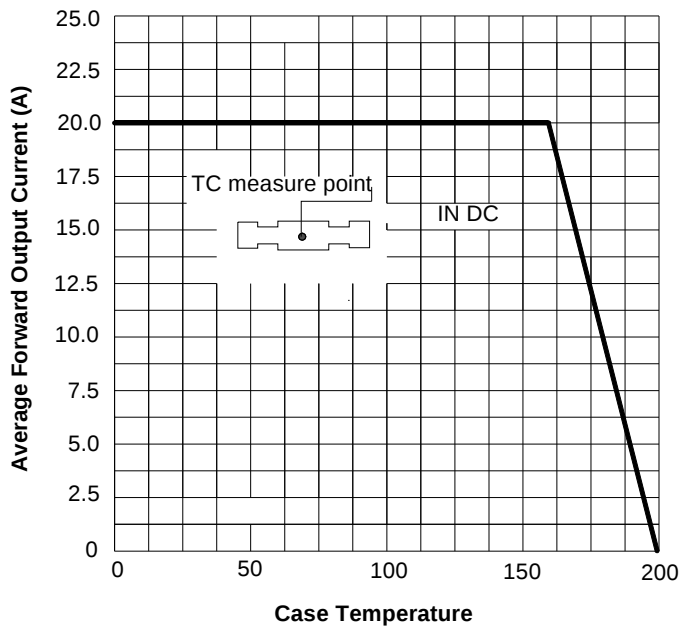
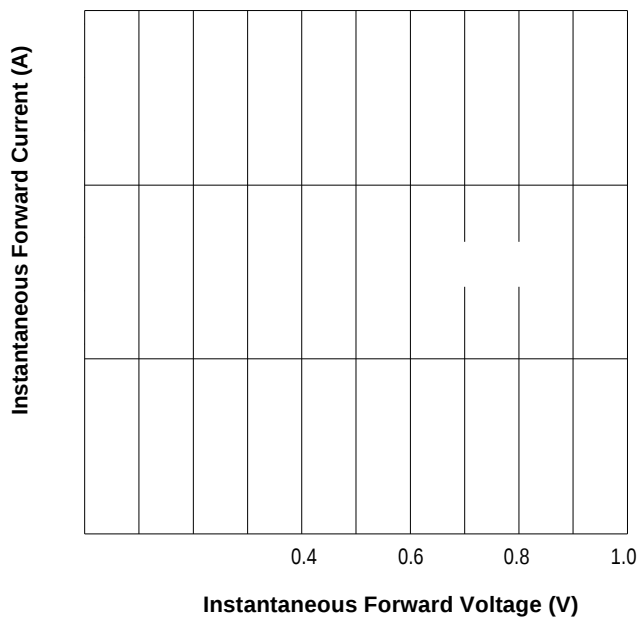


FIG3: Forward Voltage





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