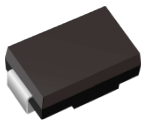
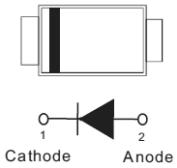
GT1MMA

Surface General Purpose Rectifier

Voltage	1000 V	Current	1 A

SMA





Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SMA Package
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.0024 ounces, 0.068 grams

Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum Rms Voltage	V_{RMS}	700	V
Maximum Dc Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	35	A
Typical Junction Capacitance Measured at 1 MHZ And Applied V_R = 4 V	C_J	8	pF
Typical Thermal Resistance	$R_{\theta JA}$ (1) $R_{\theta JC}$ (2)	150 20	°C/W
Operating Junction Temperature Range	T_J	-55~150	°C
Storage Temperature Range	T_{STG}	-55~150	°C

GT1MMA

Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 0.5 A, T_J = 25 °C	-	0.88	-	V
		I_F = 1 A, T_J = 25 °C	-	-	1.1	
		I_F = 0.5 A, T_J = 125 °C	-	0.77	-	
		I_F = 1 A, T_J = 125 °C	-	0.83	-	
Reverse Current	I_R	V_R = 800 V, T_J = 25 °C	-	0.05	-	uA
		V_R = 1000 V, T_J = 25 °C	-	-	1	
		V_R = 1000 V, T_J = 125 °C	-	6	-	
Reverse Recovery Time	T_{RR}	I_F = 0.5 A, I_R = 1 A, I_{RR} = 0.25 A, T_J = 25 °C	1000	-	2000	ns

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, mini pad.
2. Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area.

GT1MMA

TYPICAL CHARACTERISTIC CURVES

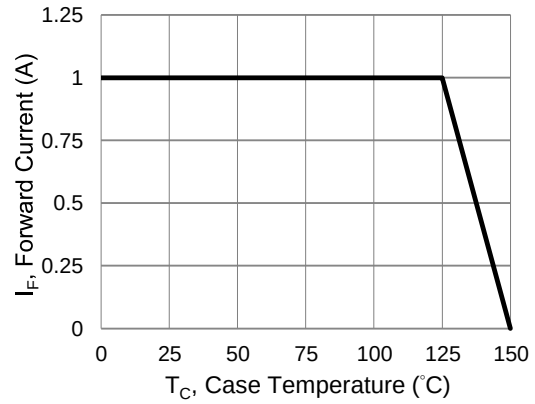


Fig.1 Forward Current Derating Curve

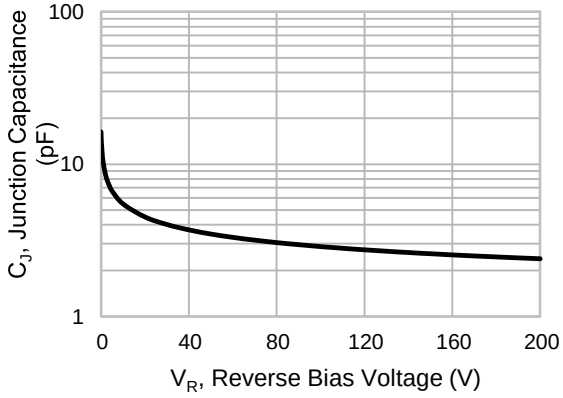


Fig.2 Typical Junction Capacitance

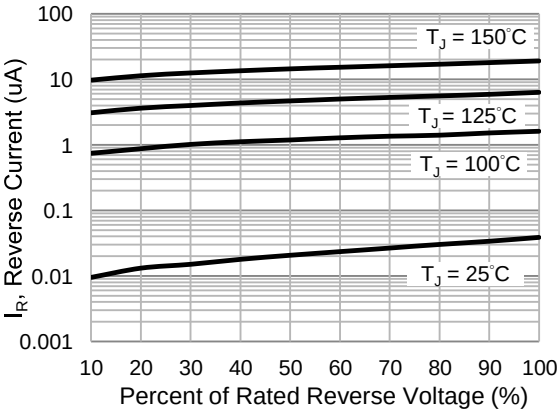


Fig.3 Typical Reverse Characteristics

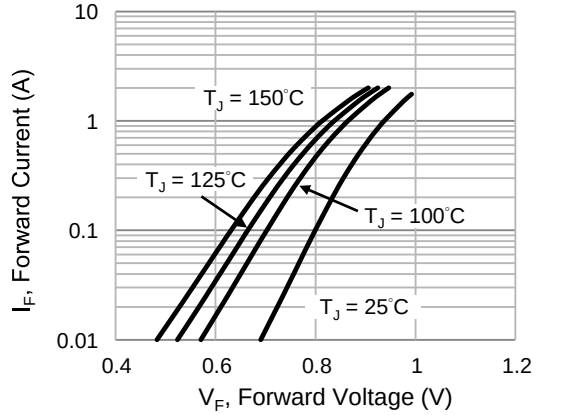


Fig.4 Typical Forward Characteristics

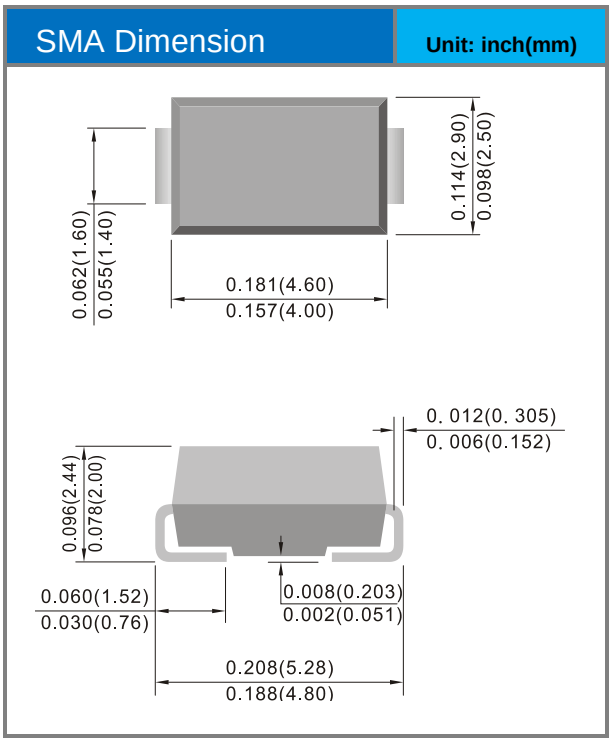
GT1MMA

Part No Packing Code Version

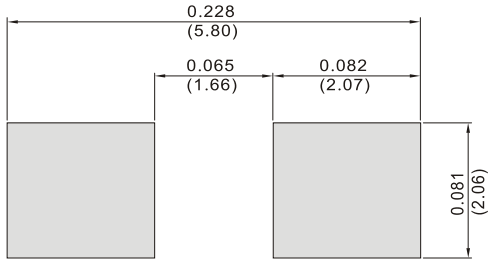
Part No Packing Code	Package Type	Packing Type	Marking	Version
GT1MMA_R1_00001	SMA	1.8K pcs / 7” reel	GT1MA	Halogen free

Packaging Information & Mounting Pad Layout

SMA Dimension — Unit: inch(mm)



SMA Pad Layout — Unit: inch(mm)



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