



GT1MMA

Surface General Purpose Rectifier

Voltage 1000 V **Current** 1 A

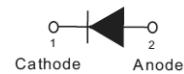
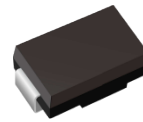
Features

- 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

SMA



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 _{θJA} ⁽¹⁾	150	°C/W
	R _{θJC} ⁽²⁾	20	
Operating Junction Temperature Range	T _J	-55~150	°C
Storage Temperature Range	T _{STG}	-55~150	°C



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Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	$I_F = 0.5\text{ A}, T_J = 25^\circ\text{C}$	-	0.88	-	V
		$I_F = 1\text{ A}, T_J = 25^\circ\text{C}$	-	-	1.1	
		$I_F = 0.5\text{ A}, T_J = 125^\circ\text{C}$	-	0.77	-	
		$I_F = 1\text{ A}, T_J = 125^\circ\text{C}$	-	0.83	-	
Reverse Current	I_R	$V_R = 800\text{ V}, T_J = 25^\circ\text{C}$	-	0.05	-	uA
		$V_R = 1000\text{ V}, T_J = 25^\circ\text{C}$	-	-	1	
		$V_R = 1000\text{ V}, T_J = 125^\circ\text{C}$	-	6	-	
Reverse Recovery Time	T_{RR}	$I_F = 0.5\text{ A}, I_R = 1\text{ A},$ $I_{RR} = 0.25\text{ A}, T_J = 25^\circ\text{C}$	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 100cm² copper pad area.



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TYPICAL CHARACTERISTIC CURVES

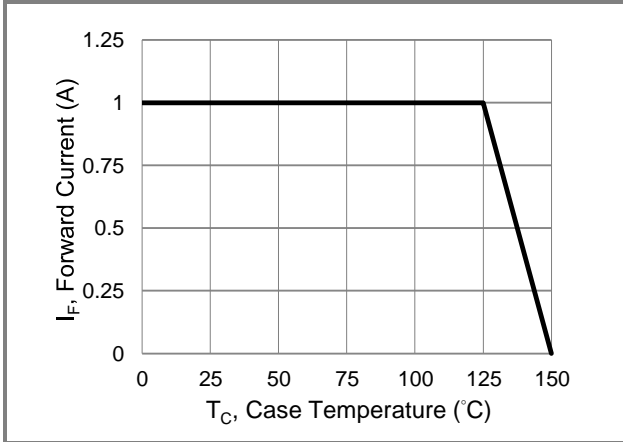


Fig.1 Forward Current Derating Curve

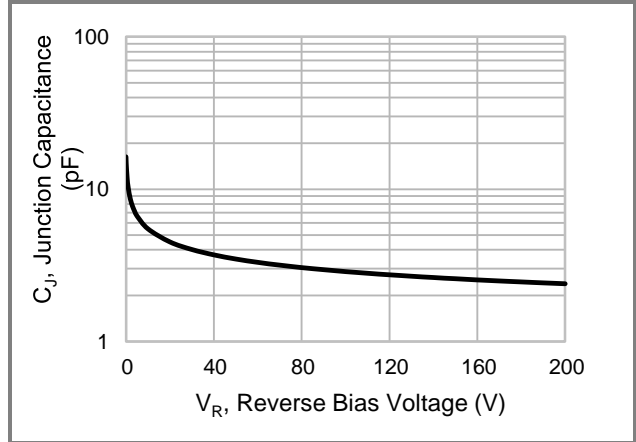


Fig.2 Typical Junction Capacitance

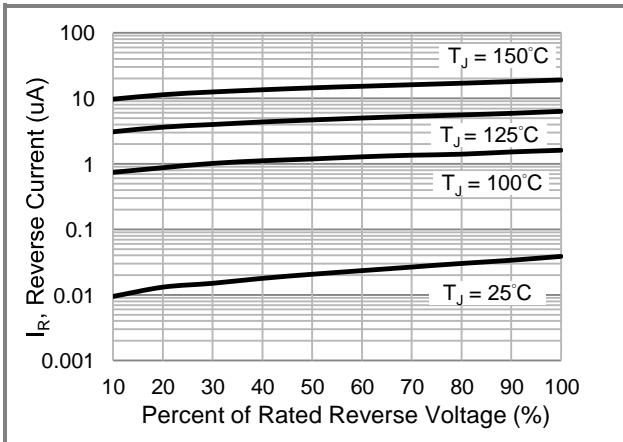


Fig.3 Typical Reverse Characteristics

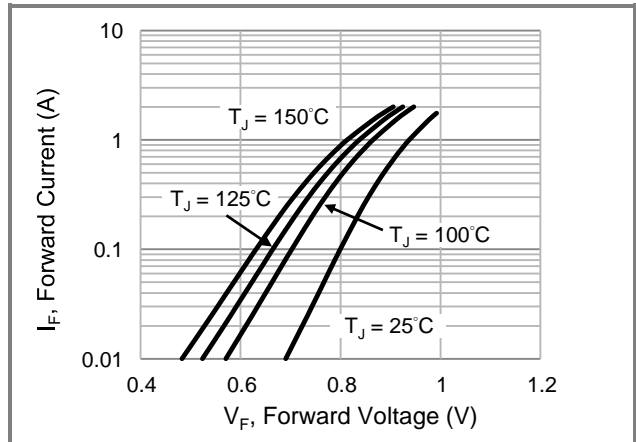


Fig.4 Typical Forward Characteristics

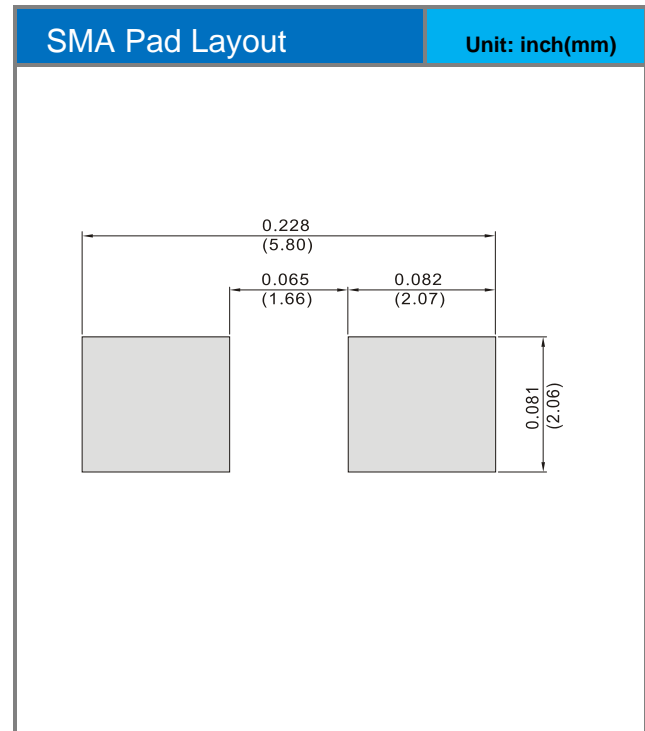
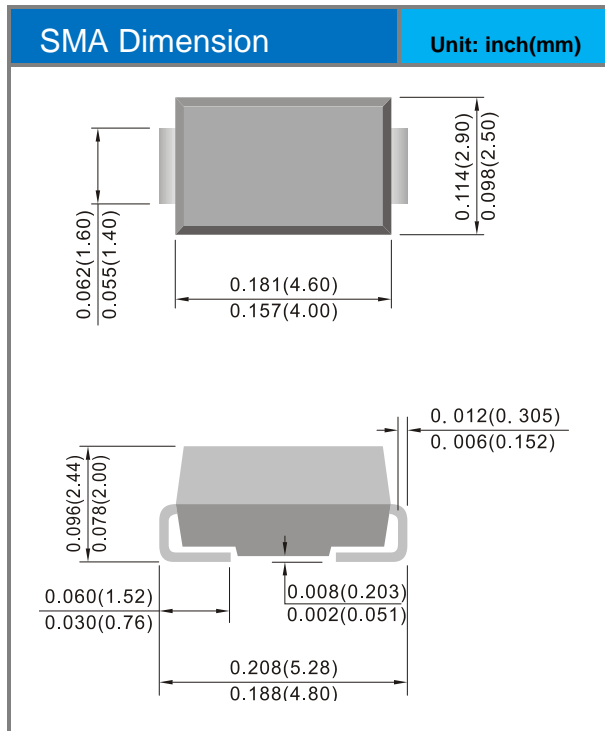


GT1MMA

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





GT1MMA

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