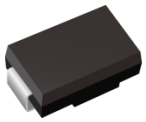
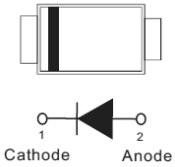
GA15Y

SURFACE MOUNT RECTIFIER

Voltage	1600 V	Current	1.5 A

SMA





Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Plastic package has underwriters laboratory flammability classification 94V-O
- 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 ($T_A = 25^oC$ unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1600	V
Maximum Rms Voltage	V_{RMS}	1130	V
Maximum Dc Blocking Voltage	V_{DC}	1600	V
Maximum Average Forward Current	$I_{F(AV)}$	1.5	A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I_{FSM}	30	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	$^oC/W$
Operating Junction Temperature Range	T_J	-55~150	^oC
Storage Temperature Range	T_{STG}	-55~150	^oC

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V_F	I_F = 0.75 A, T_J = 25°C	-	0.93	-	V
		I_F = 1.5 A, T_J = 25°C	-	-	1.15	
		I_F = 0.75 A, T_J = 125°C	-	0.82	-	
		I_F = 1.5 A, T_J = 125°C	-	0.91	-	
Reverse Current	I_R	V_R = V_{RRM}, T_J = 25°C	-	-	1	uA
		V_R = V_{RRM}, T_J = 125°C	-	14.1	-	

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.

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TYPICAL CHARACTERISTIC CURVES

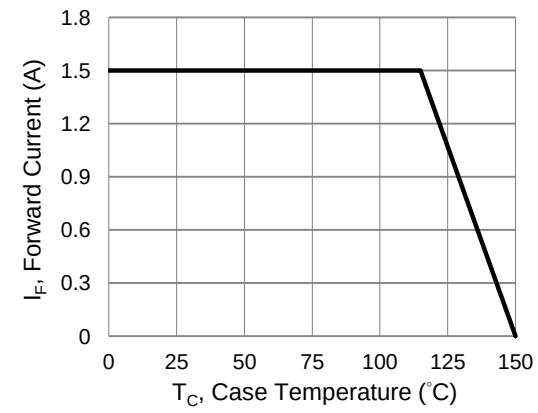

Fig.1 Forward Current Derating Curve

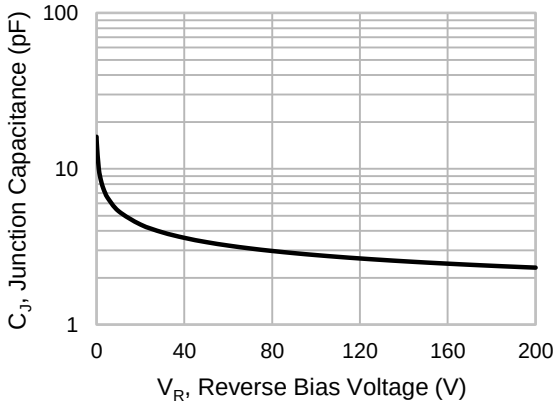

Fig.2 Typical Junction Capacitance

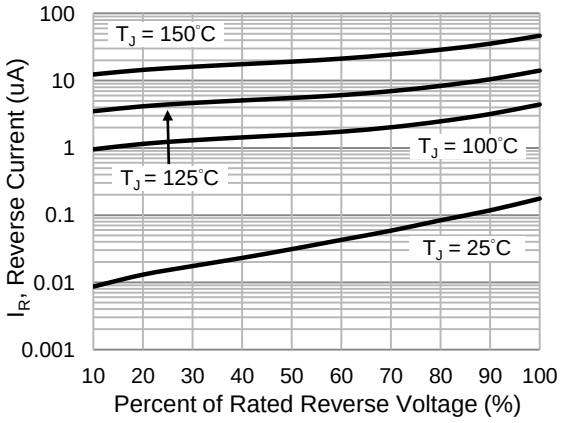

Fig.3 Typical Reverse Characteristics

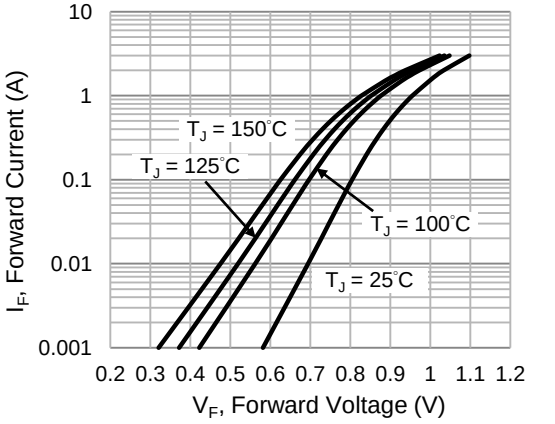

Fig.4 Typical Forward Characteristics

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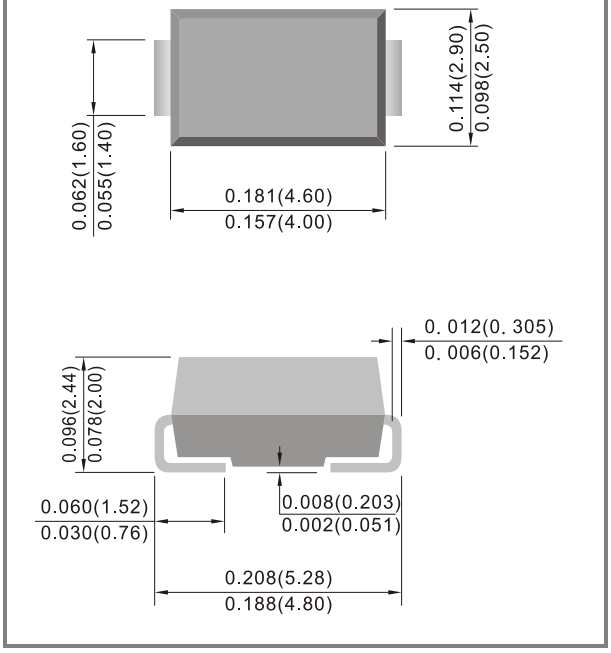
Part No Packing Code Version

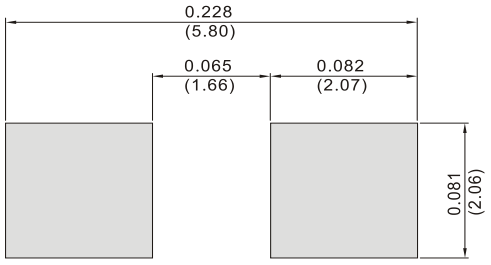
Part No Packing Code	Package Type	Packing Type	Marking	Version
GA15Y_R2_00001	SMA	7.5K pcs / 13” reel	GA15Y	Halogen free

Packaging Information & Mounting Pad Layout

SMA Dimension — Unit: inch(mm)



SMA Pad Layout — Unit: inch(mm)



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