

#### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	60	V
Maximum Rms Voltage	V <sub>RMS</sub>	42	V
Maximum Dc Blocking Voltage	V <sub>DC</sub>	60	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	3	А
Peak Forward Surge Current: 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I <sub>FSM</sub>	80	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 V$	CJ	120	pF
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup> R <sub>θJC</sub> <sup>(2)</sup>	150 20	°C/W
Operating Junction Temperature Range	TJ	-55~150	°C
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C



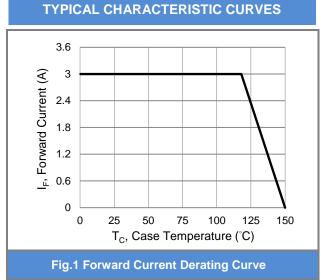
### **Electrical Characteristics** (T<sub>A</sub> = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	VF	I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	0.44	-	V
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 25 °C	-	-	0.75	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.37	-	
		I <sub>F</sub> = 3 A, T <sub>J</sub> = 125 °C	-	0.56	-	
Reverse Current	I <sub>R</sub> <sup>(3)</sup>	V <sub>R</sub> = 48 V, T <sub>J</sub> = 25 °C	-	7	-	uA
		$V_R = 60 V, T_J = 25 °C$	-	-	100	
		V <sub>R</sub> = 60 V, T <sub>J</sub> = 125 °C	-	8.5	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad
- 2. Mounted on a FR4 PCB, single-sided copper, with 100 cm<sup>2</sup> copper pad area
- 3. Short duration pulse test used to minimize self-heating effect





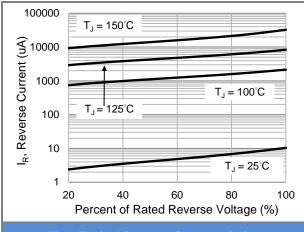
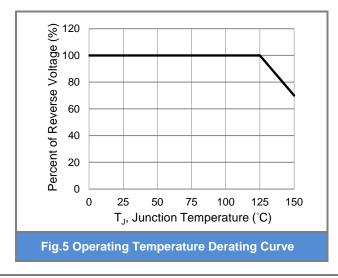


Fig.3 Typical Reverse Characteristics



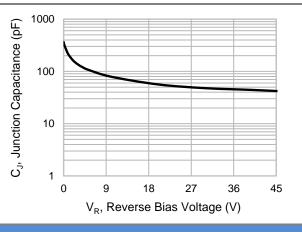
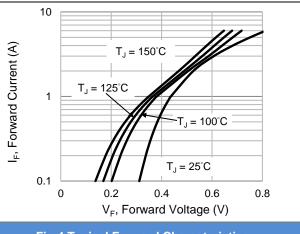


Fig.2 Typical Junction Capacitance



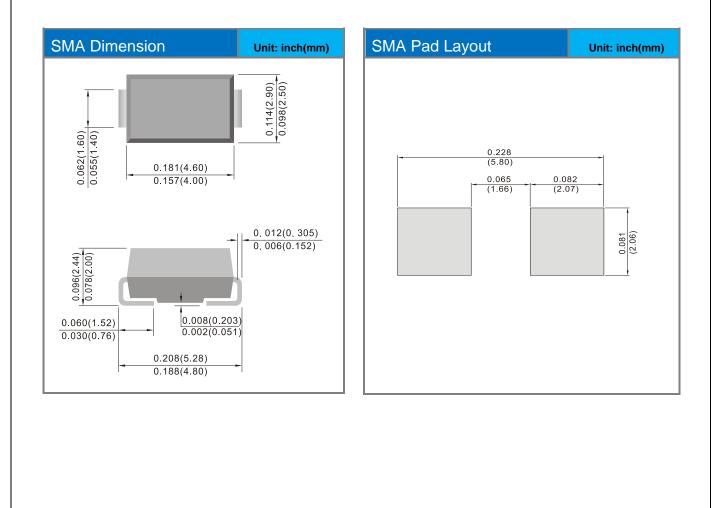
**Fig.4 Typical Forward Characteristics** 



#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking	
SX36-AU	SMA	7.5K pcs / 13" reel	SX36	

### **Packaging Information & Mounting Pad Layout**





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