

SX34 / SX36

Surface Mount Schottky Barrier Rectifier

Voltage 40-60 V **Current** 3 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Low power loss, high efficiency
- High surge capacity
- 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
- Approx. Weight : 0.0679 grams

SMA



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

PARAMETER		SYMBOL	SX34	SX36	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	40	60	V
Maximum RMS Voltage		V _{RMS}	28	42	V
Maximum DC Blocking Voltage		V _{DC}	40	60	V
Maximum Average Forward Current		I _{F(AV)}	3		A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load		I _{FSM}	150		A
Maximum Forward Voltage at 3A ^(Note 1)		V _F	0.5	0.75	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C	I _R	0.2	0.1	mA
	T _J =100°C		20	20	
Typical Thermal Resistance	(Note 2)	R _{θJA}	150		°C/W
	(Note 3)	R _{θJL}	25		
Operating Junction Temperature Range		T _J	-55~150		°C
Storage Temperature Range		T _{STG}	-55~150		°C

NOTES :

1. Pulse Test with PW = 300 μ sec, 1% Duty Cycle.
2. Mounted on a FR4 PCB, single-sided copper, mini pad.
3. Mounted on a FR4 PCB, single-sided copper, with 100 cm² copper pad area.

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TYPICAL CHARACTERISTIC CURVES

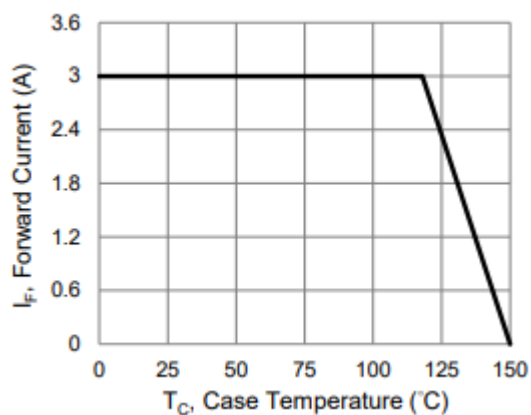


Fig.1 Forward Current Derating Curve

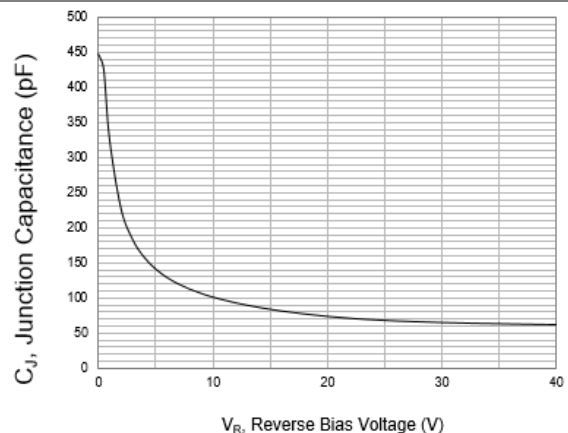


Fig.2 Typical Junction Capacitance

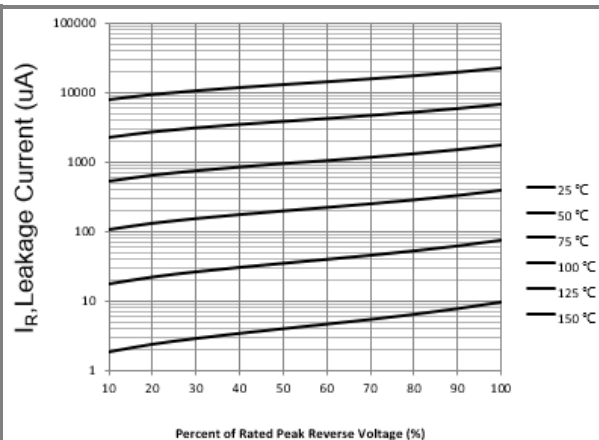


Fig.3 Typical Reverse Characteristics

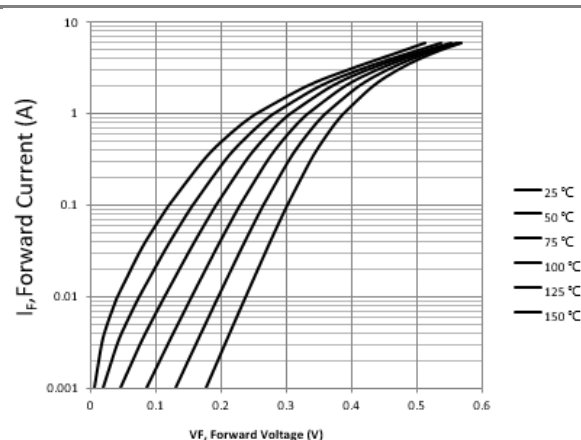


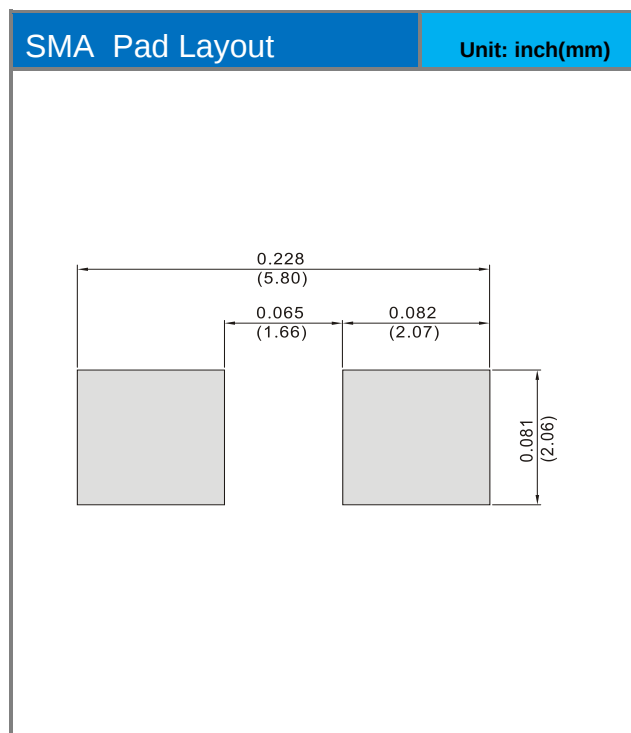
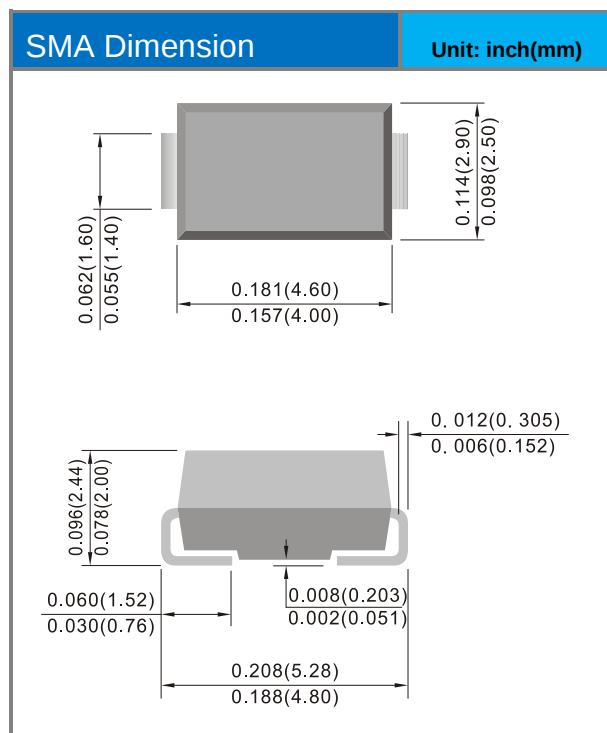
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SX34	SMA	1.8K pcs / 7" reel	SX34
SX36	SMA	1.8K pcs / 7" reel	SX36

Packaging Information & Mounting Pad Layout



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