



### LOW VF SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volt CURRENT 3 Ampere

#### **FEATURES**

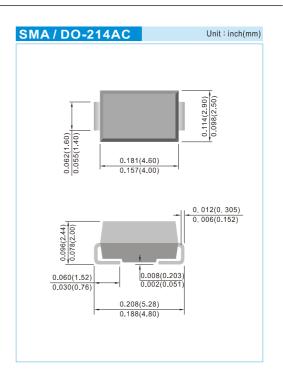
- · Low forward voltage drop, low reverse current
- · High Efficiency
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

### **APPLICATIONS**

- · Low voltage high frequency inverters
- DC/DC converters
- · Polanity protection
- Freewheeling

#### **MECHANICAL DATA**

- · Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- · Weight: 0.0024 ounces, 0.0679 grams



### ABSOLUTE MAXIMUM RATINGS (TA= 25°C)

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	30	٧
Maximum Average Rectified Forward Current	lo	3	Α
Peak Surge Forward Current	I FSM	75	Α
Typical Thermal Resistance (Note 1)	Roja Rojl	100 20	°C/W
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тsтg	-55 to +150	°C

### ELECTRICAL CHARACTERISTICS (TA= 25°C)

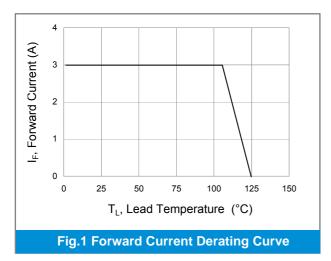
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Instantaneous forward voltage (Note 2)	VF		TJ=25°C		0.29 0.32 0.35	0.31 0.35 0.37	V
			TJ=125°C		0.17 0.21 0.26		V
Reverse current	I R	V <sub>R</sub> =21V	TJ=25°C TJ=125°C	-	0.3 90	0.5 -	mA
		V <sub>R</sub> =30V	TJ=25°C TJ=125°C	-	0.8 160	1 -	mA

#### NOTES:

- 1. Mounted on P.C. Board with  $25 \text{mm}^2$  copper pad areas.
- 2. Pulse Test with PW =300µsec, 1% Duty Cycle.

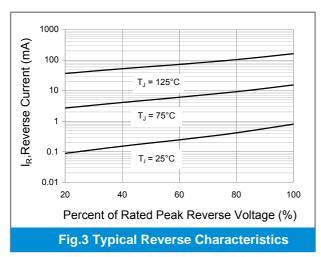


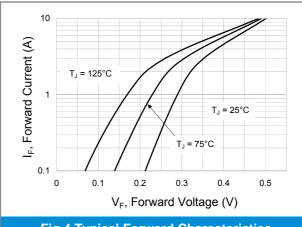




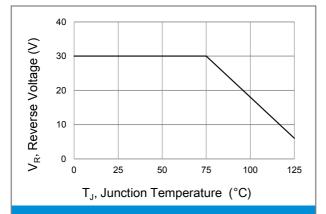
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**Fig.4 Typical Forward Characteristics** 



**Fig.5 Operating Temperature Derating Curve** 

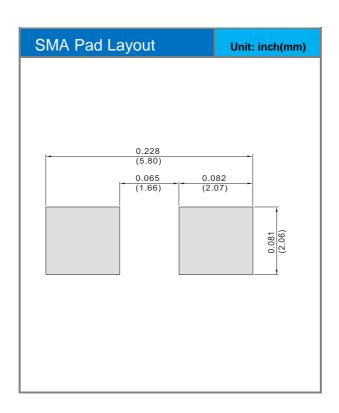




# Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SX33L_R1_00001	SMA	1.8K pcs / 7" reel	SX33L	Halogen free

# **Mounting Pad Layout**







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