



LOW VF SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volt CURRENT 3 Ampere

FEATURES

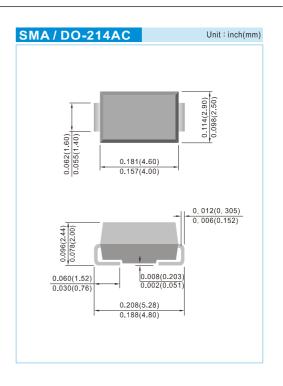
- · Low forward voltage drop, low reverse current
- · High Efficiency
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

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)

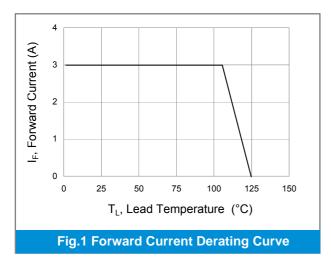
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Instantaneous forward voltage (Note 2)	\/-	F=1A F=2A F=3A	TJ=25°C	- - -	0.29 0.32 0.35	0.31 0.35 0.37	V
	VF	F=1A F=2A F=3A	TJ=125°C	- - -	0.17 0.21 0.26	- - -	V
Reverse current	l a	V _R =21V	TJ=25°C TJ=125°C	-	0.3 90	0.5 -	mA
	IR	VR=30V	TJ=25°C TJ=125°C	-	0.8 160	1 -	mA

NOTES

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

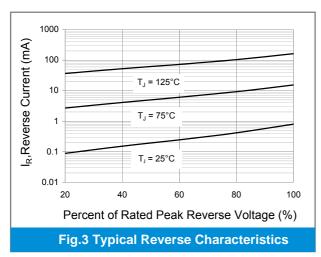






C_J, Junction Capacitance (pF) $$^{\odot}$$ $^{\odot}$ $^{\odot}$ 0.1 V_R, Reverse Bias Voltage (V)





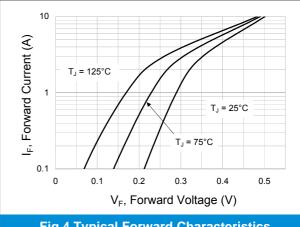


Fig.4 Typical Forward Characteristics

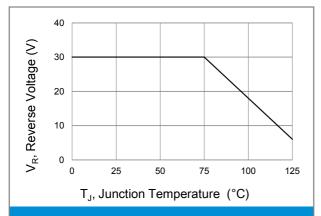


Fig.5 Operating Temperature Derating Curve

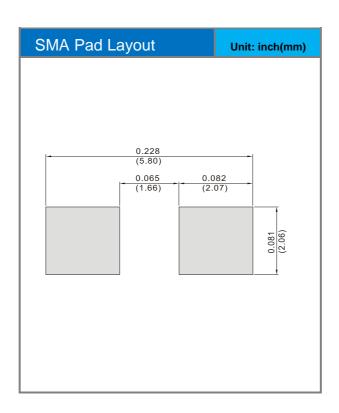




Part No Packing Code Version

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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