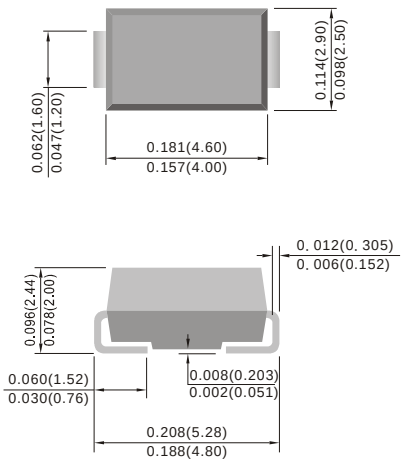
SX33L

LOW VF SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volt **CURRENT** 3.0 Ampere

SMA / DO-214AC Unit : inch(mm)



FEATURES

- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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 (T_A= 25°C)

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Maximum Average Rectified Forward Current	I_O	3	A
Peak Surge Forward Current	I_{FSM}	75	A
Typical Thermal Resistance (Note 1)	$R_{\Theta JA}$ $R_{\Theta JL}$	100 20	°C/W
Operating Junction Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (T_A= 25°C)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Instantaneous forward voltage (Note 2)	V_F	I_F=1A I_F=2A I_F=3A	T_J=25°C	- - -	0.29 0.32 0.35	0.31 0.35 0.37	V
		I_F=1A I_F=2A I_F=3A	T_J=125°C	- - -	0.17 0.21 0.26	- - -	V
Reverse current	I_R	V_R=21V	T_J=25°C T_J=125°C	-	0.3 90	0.5 -	mA
		V_R=30V	T_J=25°C T_J=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.

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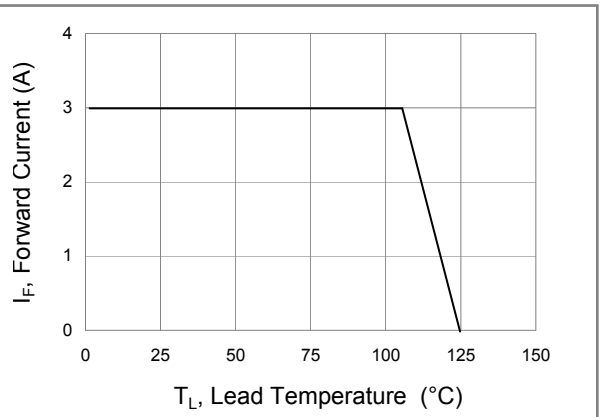


Fig.1 Forward Current Derating Curve

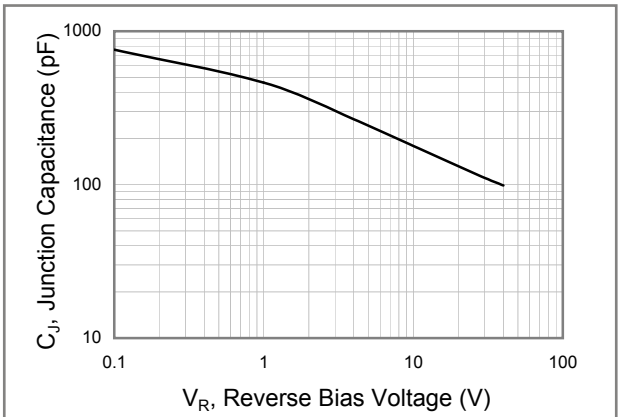


Fig.2 Typical Junction Capacitance

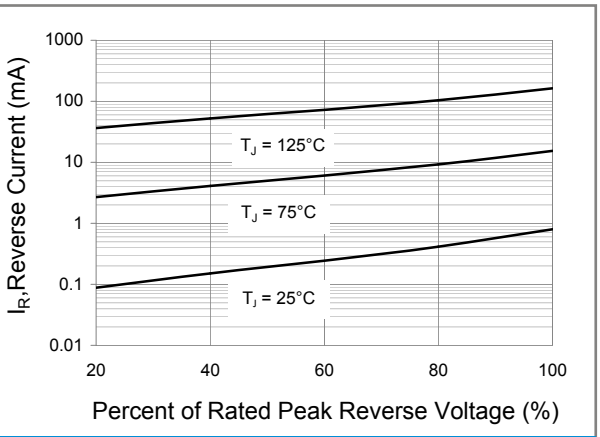


Fig.3 Typical Reverse Characteristics

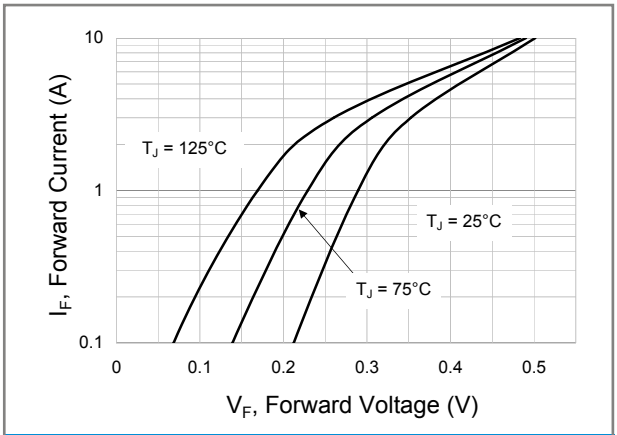


Fig.4 Typical Forward Characteristics

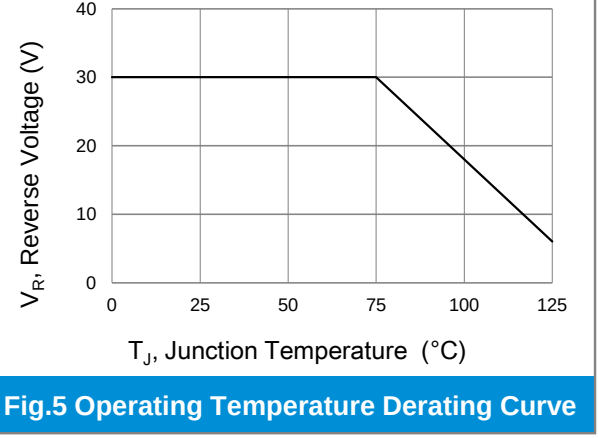
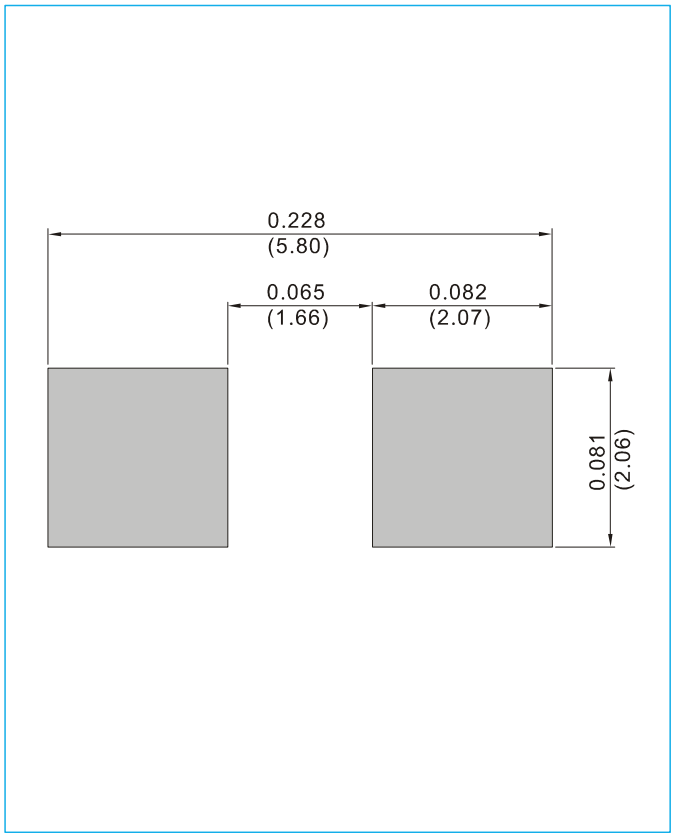


Fig.5 Operating Temperature Derating Curve

SX33L

MOUNTING PAD LAYOUT

SMA / DO-214AC Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 3K per 13" plastic Reel

  T/R - 0.5K per 7" plastic Reel

SX33L

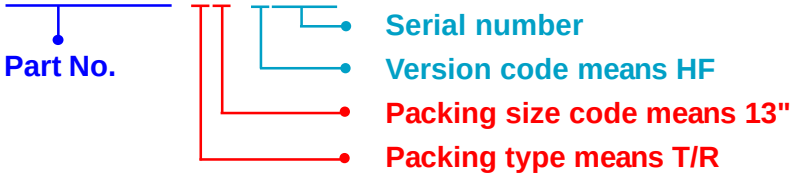
Part No_packing code_Version

SX33L_R1_00001

SX33L_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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