



SX33L

LOW VF SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volt **CURRENT** 3.0 Ampere

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

FEATURES

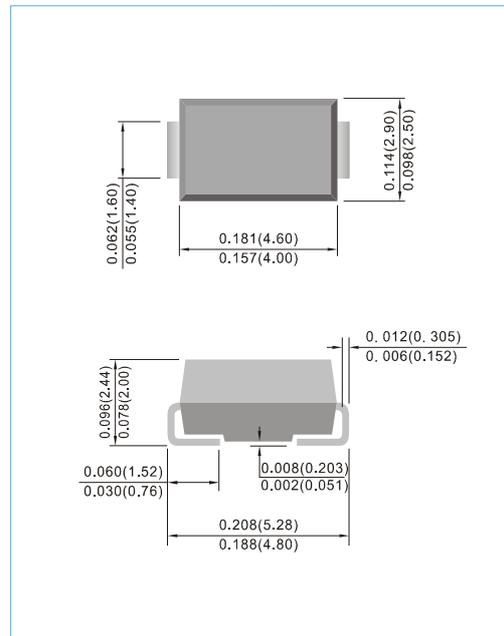
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

APPLICATIONS

- Low voltage high frequency inverters
- DC/DC converters
- Polarity 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 _{θJA} R _{θJL}	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 T _J =25°C	-	0.29	0.31	V
		I _F =2A T _J =25°C	-	0.32	0.35	
		I _F =3A T _J =25°C	-	0.35	0.37	
		I _F =1A T _J =125°C	-	0.17	-	V
I _F =2A T _J =125°C	-	0.21	-			
I _F =3A T _J =125°C	-	0.26	-			
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 -	

NOTES:

1. Mounted on P.C. Board with 25mm² copper pad areas.
2. Pulse Test with PW =300µsec, 1% Duty Cycle.



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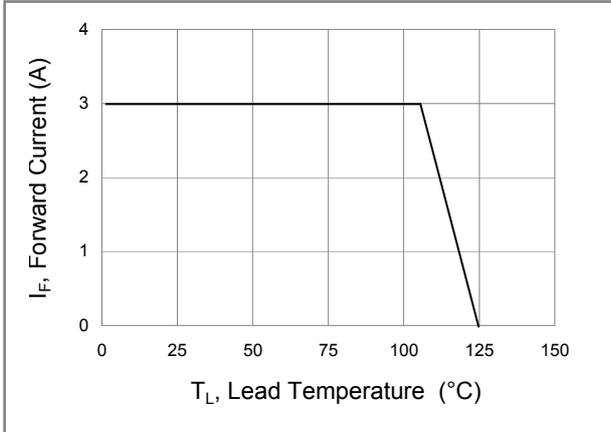


Fig.1 Forward Current Derating Curve

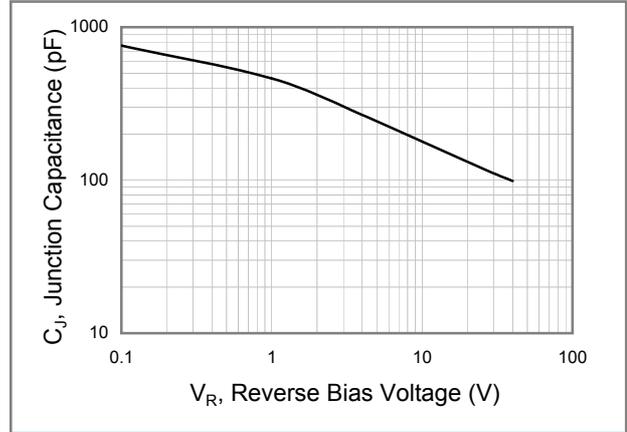


Fig.2 Typical Junction Capacitance

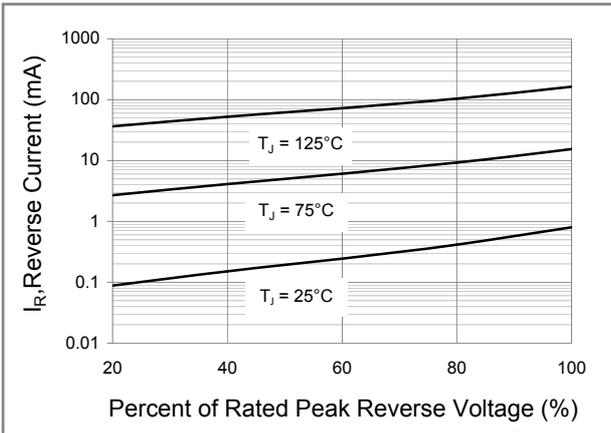


Fig.3 Typical Reverse Characteristics

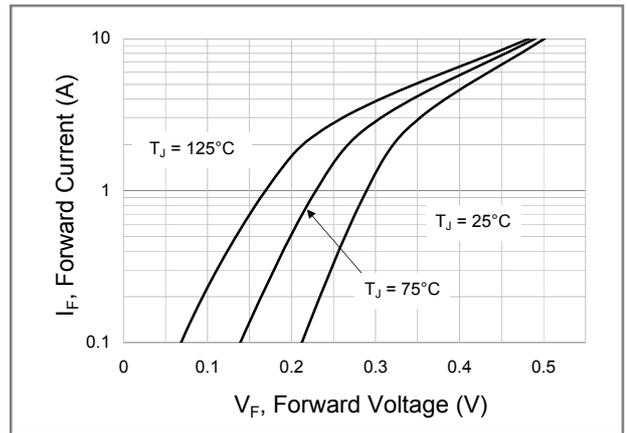


Fig.4 Typical Forward Characteristics

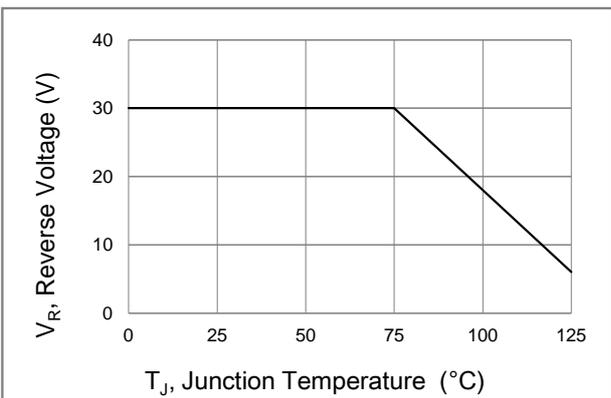


Fig.5 Operating Temperature Derating Curve

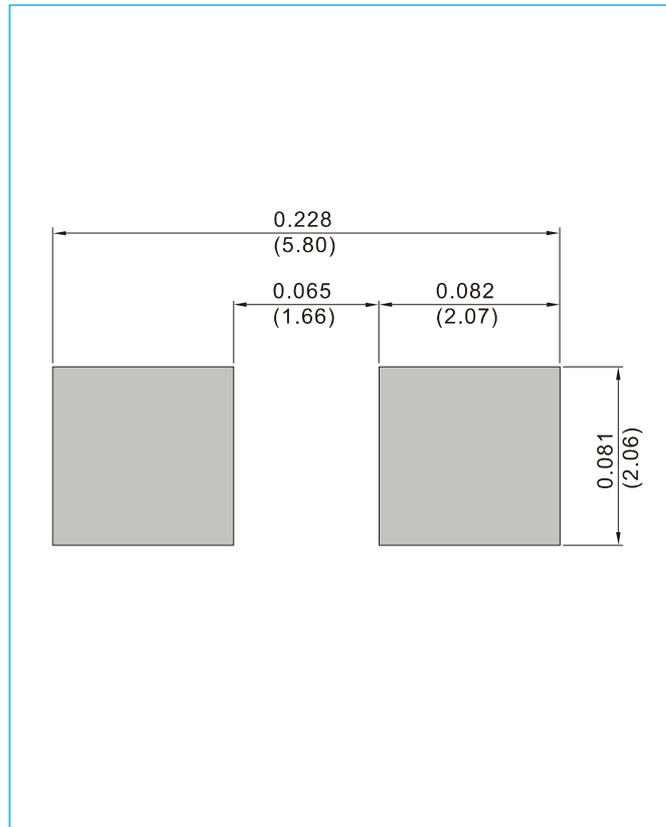


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MOUNTING PAD LAYOUT

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



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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	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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