

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

PARAMETER	SYMBOL	LIMITS	UNIT
Maximum Repetitive Peak Reverse Voltage	Vrrm	30	V
Maximum Average Rectified Forward Current	Ιo	3	А
Peak Surge Forward Current	I FSM	75	А
Typical Thermal Resistance (Note 1)	Røja Røjl	100 20	°C/W
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

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

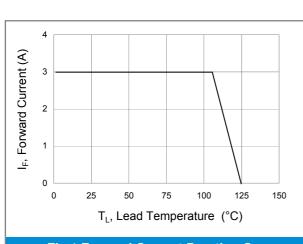
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Instantaneous forward voltage (Note 2)	Vf	F=1A  F=2A  F=3A	TJ=25°C	- -	0.29 0.32 0.35	0.31 0.35 0.37	V
		F=1A   F=2A   F=3A	TJ=125℃	- -	0.17 0.21 0.26	- - -	V
Reverse current	l r	V <sub>R</sub> =21V	TJ=25°C TJ=125°C	-	0.3 90	0.5 -	mA
		VR=30V	TJ=25°C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

NOTES:

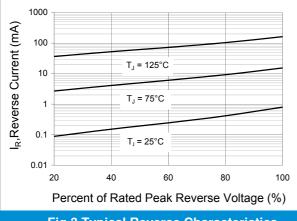
1. Mounted on P.C. Board with  $25 \text{mm}^2$  copper pad areas.

2. Pulse Test with PW =300µsec, 1% Duty Cycle.

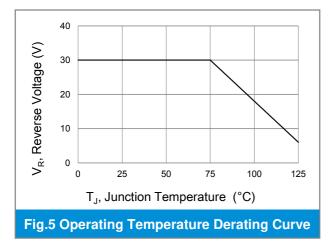




#### Fig.1 Forward Current Derating Curve



**Fig.3 Typical Reverse Characteristics** 



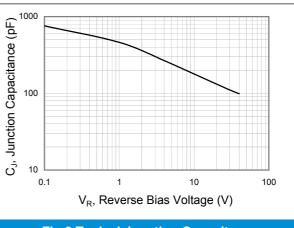
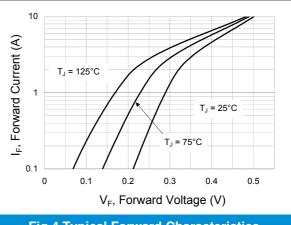


Fig.2 Typical Junction Capacitance



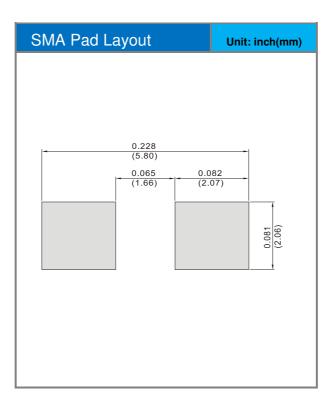
**Fig.4 Typical Forward Characteristics** 



### 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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