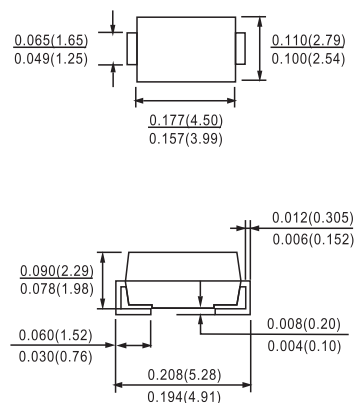


FEATURES

- Low forward voltage drop, low reverse current
- High Efficiency
- In compliance with EU RoHS 2002/95/EC directives

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: 0.0023 ounce, 0.0679 gram

DO-214AC(SMA)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
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	-	0.29	0.31	V
		I _F =2A	-	0.32	0.35	
		I _F =3A	-	0.35	0.37	
		I _F =1A	-	0.17	-	V
		I _F =2A	-	0.21	-	
		I _F =3A	-	0.26	-	
Reverse current	I _R	V _R =21V	-	0.3	0.5	mA
		T _J =25°C	-	90	-	
		T _J =125°C	-	0.8	1	mA
		V _R =30V	-	160	-	
		T _J =125°C	-	-	-	-

NOTES:

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



TAYCHIPST

LOW VF SCHOTTKY BARRIER DIODE

SX33L

30V 3.0A

RATINGS AND CHARACTERISTIC CURVES

SX33L

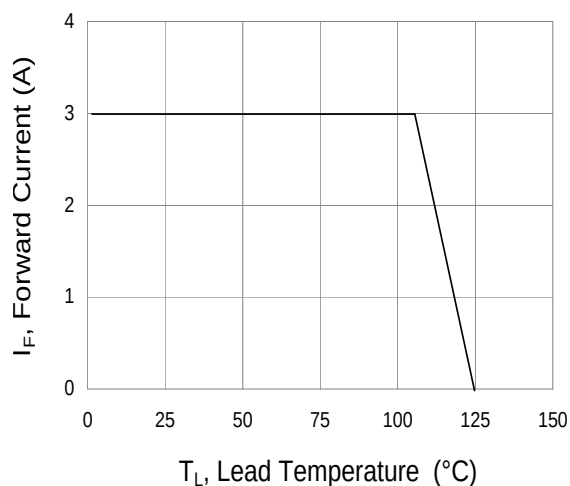


Fig.1 Forward Current Derating Curve

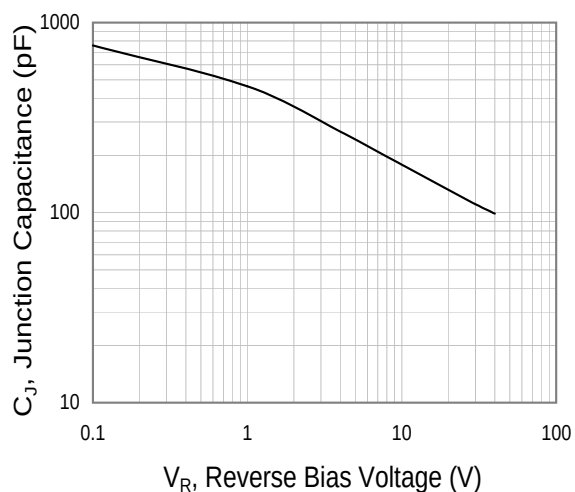


Fig.2 Typical Junction Capacitance

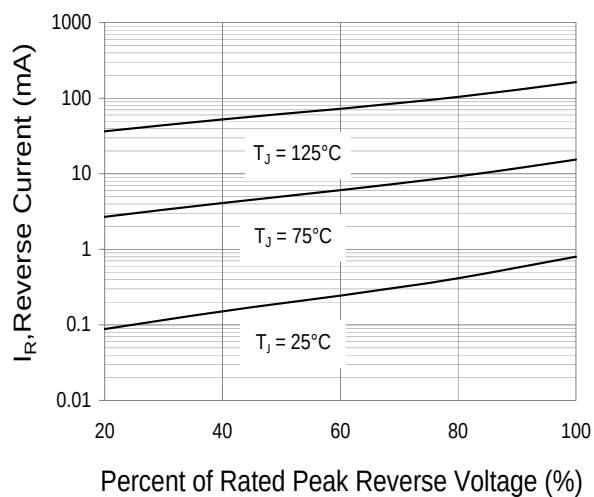


Fig.3 Typical Reverse Characteristics

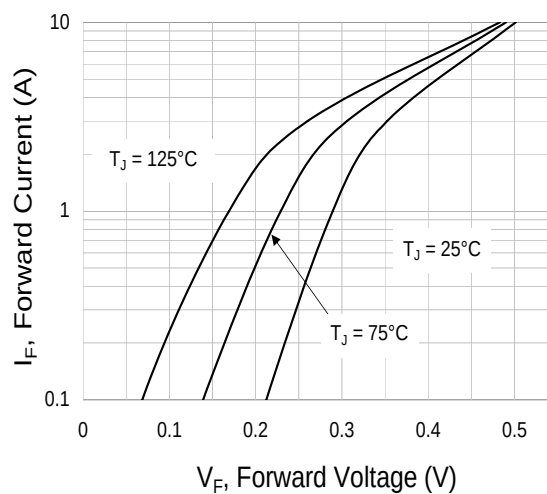


Fig.4 Typical Forward Characteristics