



SX33L

LOW VF SCHOTTKY BARRIER DIODE

VOLTAGE 30 Volt **CURRENT** 3 Ampere

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

FEATURES

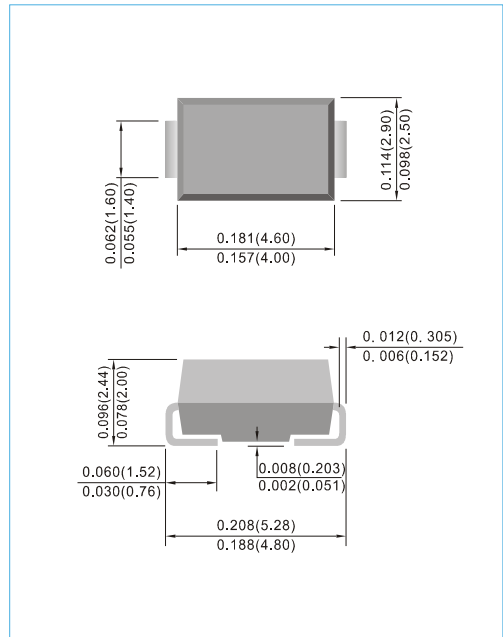
- Low forward voltage drop, low reverse current
- High Efficiency
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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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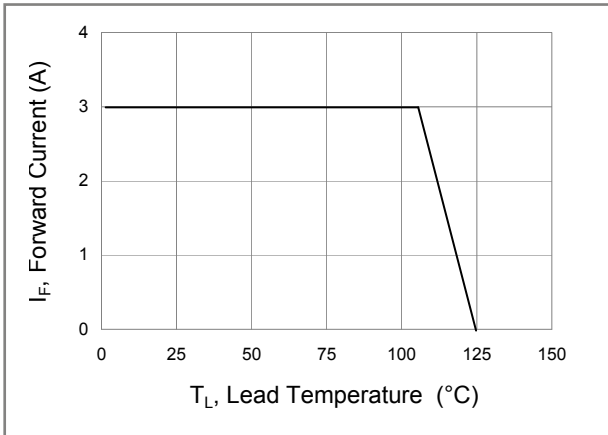


Fig.1 Forward Current Derating Curve

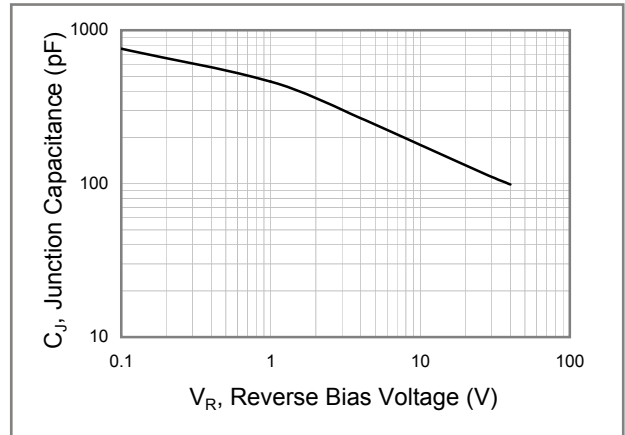


Fig.2 Typical Junction Capacitance

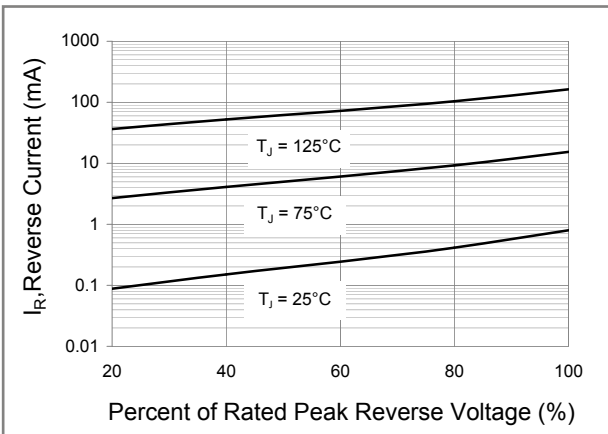


Fig.3 Typical Reverse Characteristics

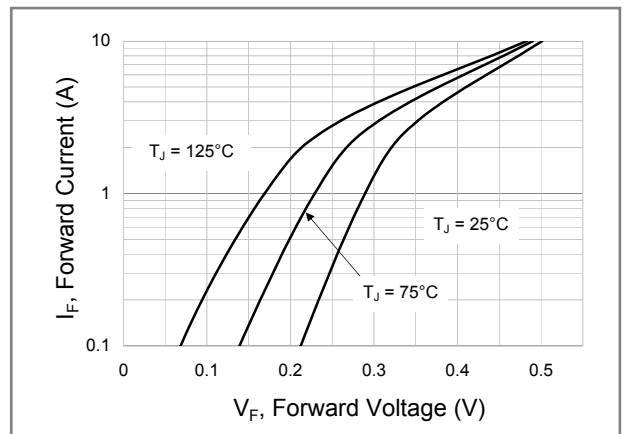


Fig.4 Typical Forward Characteristics

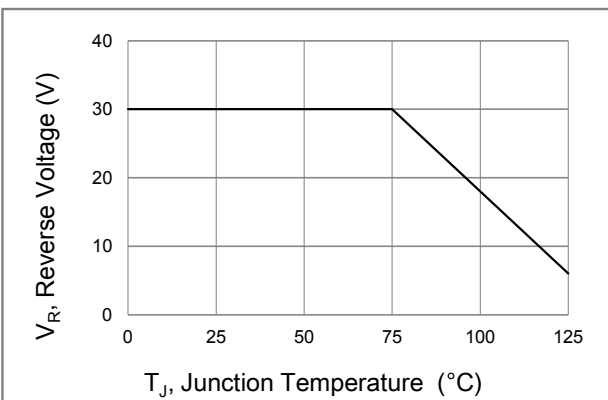


Fig.5 Operating Temperature Derating Curve

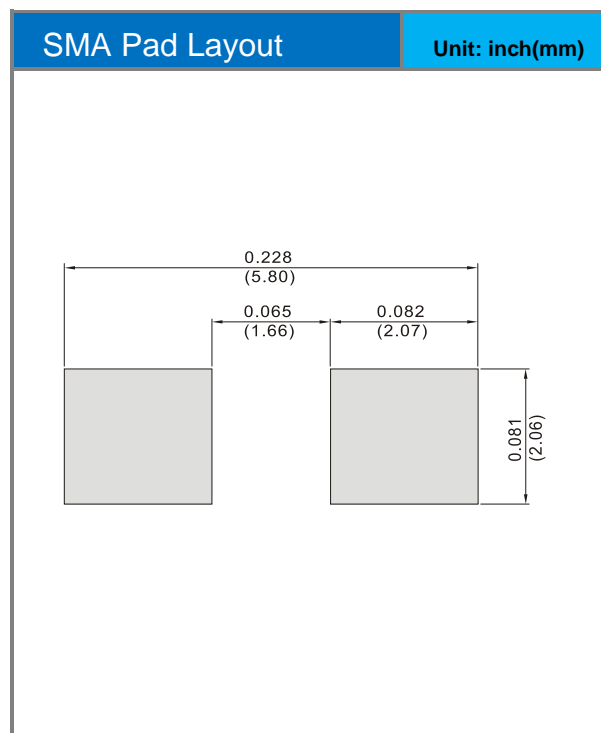


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Part No Packing Code Version

| 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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