

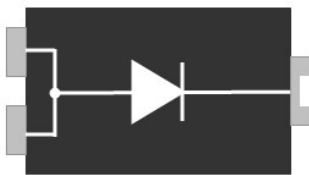
FEATURES

- ◇ High current capability, low forward voltage
- ◇ Excellent high temperature stability
- ◇ Low power loss, and high efficiency
- ◇ High forward surge capability
- ◇ RoHS compliant, and Halogen free

ORDERING INFORMATION

- ◇ Device: SD5U60SL
- ◇ Package: TO-277B
- ◇ Material: Halogen free
- ◇ Packing: Tape & 13" Reel
- ◇ Quantity per reel:
5,000pcs

PIN CONFIGURATION



MACHANICAL DATA

- ◇ Case: TO-277B small outline plastic package
- ◇ Terminal: Matte tin plated, solderable per MIL-STD-750, Method 2026
- ◇ Molding Compound Flammability Rating:UL94-0
- ◇ High temperature soldering guaranteed:
260°C /10second
- ◇ Packed with FRP substrate and epoxy underfilled

APPLICATIONS

- ◇ Switching mode power supply applications
- ◇ Portable equipment battery applications
- ◇ High frequency rectification
- ◇ DC/DC converter
- ◇ Designed as bypass diodes for solar panels

ACKAGE OUTLINE





SD5U60SL

5A/60V Low VF Schottky Rectifier

ABSOLUTE MAXIMUM RATING (T_{amb}=25°C, unless otherwise specified)

| Symbol | Parameter | Value | Units |
|---|--|----------|-------|
| V _{RRM} V _{RWM} V _{DC} | Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC blocking voltage | 60 | V |
| V _{R(RMS)} | RMS Rectified Voltage | 42 | V |
| I _{F(AV)} | Average Forward Current | 5 | A |
| I _{FSM} | Peak Forward Surge Current, 8.3ms single half sine-wave | 140 | A |
| R _{θJA} R _{θJL} | Typical Thermal Resistance Junction to Ambient | 80 15 | °C/W |
| T _J & T _{STG} | Junction and Storage Temperature | -55~+150 | °C |

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C, unless otherwise specified)

| Symbol | Parameter | Test Condition | Min | Typ | Max | Units |
|----------------|-------------------------|----------------------------|-----|------|------|-------|
| V _F | Forward Voltage | I _F = 5A @ 25°C | | 0.50 | | V |
| I _R | Reverse Leakage Current | @ 25°C | | | 0.30 | mA |
| | | @ 100°C | | | 15 | mA |

ELECTRICAL CHARACTERISTICS CURVE

Fig.1 - Forward Current Derating Curve

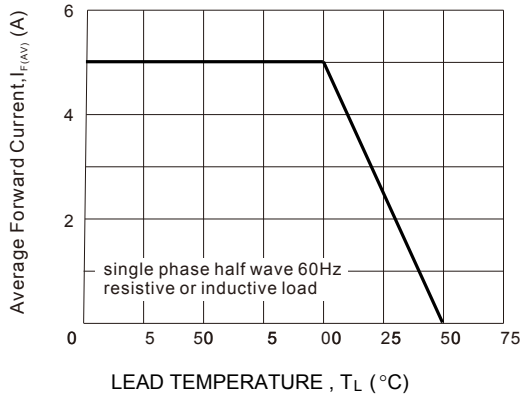


Fig2 : Instantaneous Forward Voltage

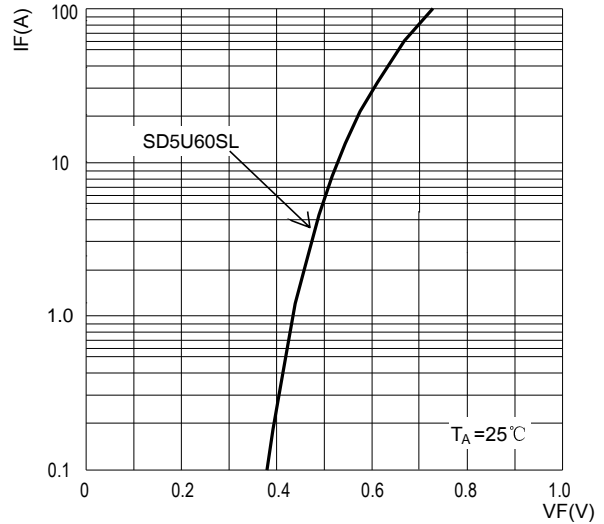


Fig3: Surge Forward Current Capability

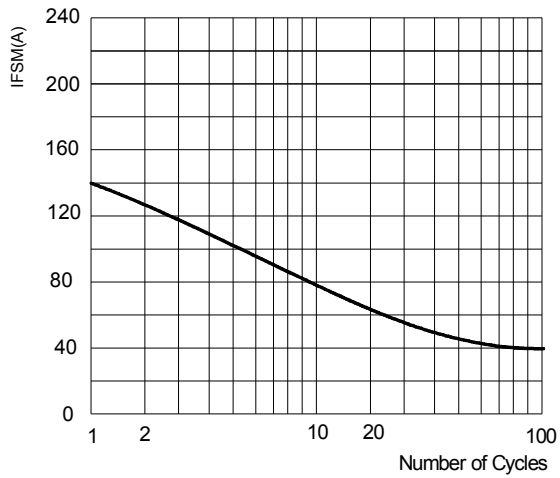
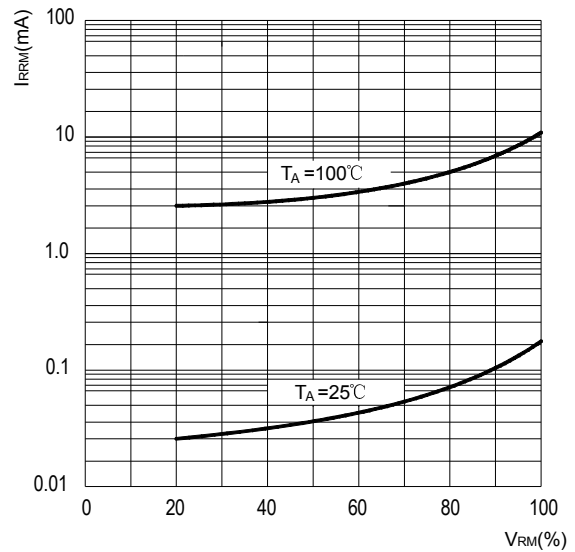
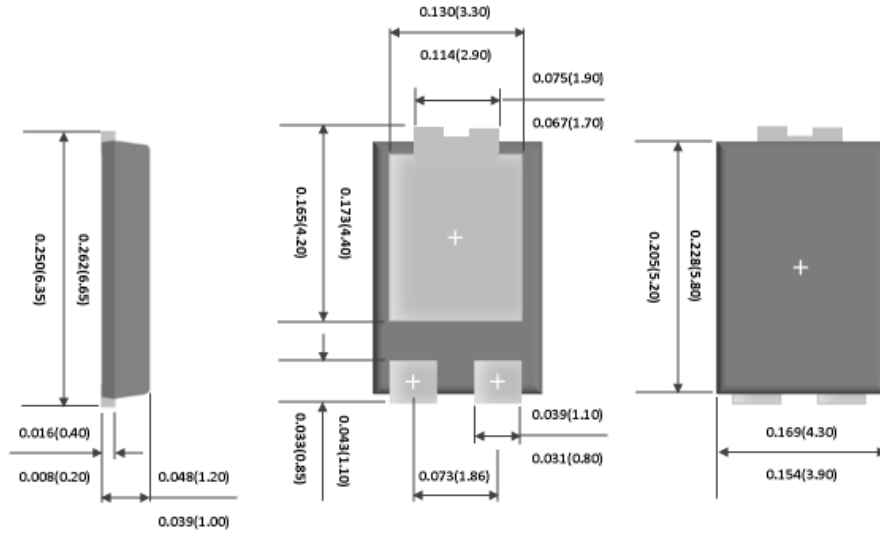


Fig4: Typical Reverse Characteristics

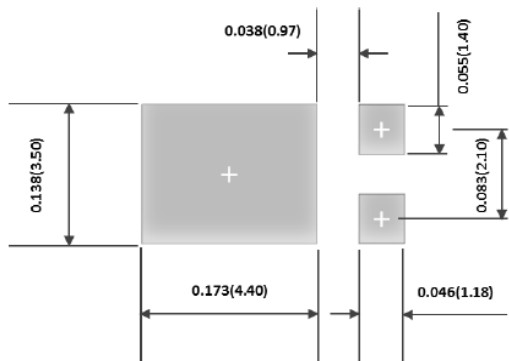


TO-277B PACKAGE OUTLINE DIMENSIONS



unit: mm

FOOT PRINT RECOMMENDATION



unit: mm

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [LGE](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [MMBD301M3T5G](#) [HFA35HB60C](#) [RB160M-50TR](#) [D83C](#) [BAS16E6433HTMA1](#) [BAS 3010S-02LRH](#) [E6327](#) [BAT 54-02LRH](#)
[E6327](#) [NRVBAF360T3G](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SS3003CH-TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#)
[MBRA140TRPBF](#) [MBRB30H30CT-1G](#) [BAT 15-04R](#) [E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#) [SB007-03C-TB-E](#) [NRVBB20100CTT4G](#)
[NRVBM120LT1G](#) [NTSB30U100CT-1G](#) [CRG04\(T5L,TEMQ\)](#) [ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#)
[CDBQC0530L-HF](#) [ACDBA260LR-HF](#) [ACDBA1100-HF](#) [10BQ015-M3/5BT](#) [NRVBM120ET1G](#) [VSSB410S-M3/5BT](#) [1N5819T-G](#)
[PDS1040Q-13](#) [B160BQ-13-F](#) [SDM05U20CSP-7](#) [BAS 70-07](#) [E6433](#) [B140S1F-7](#) [HSM560Je3/TR13](#) [DDB2265-000](#) [ZHCS506QTA](#)
[HSM190Je3/TR13](#) [B330AF-13](#) [ACDBUC0230-HF](#) [SDM1U100S1F-7](#) [MBR10200CTF-G1](#) [CDLL5712](#)