

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

RoHS COMPLIANT

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

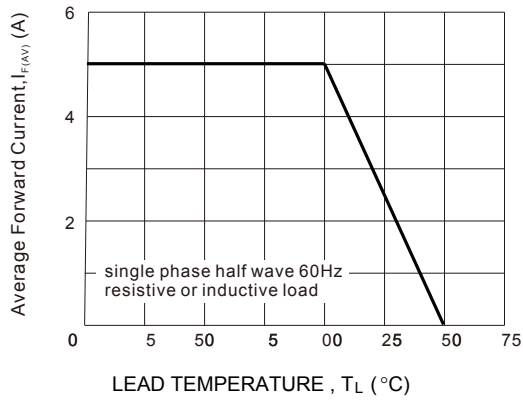


Fig2 : Instantaneous Forward Voltage

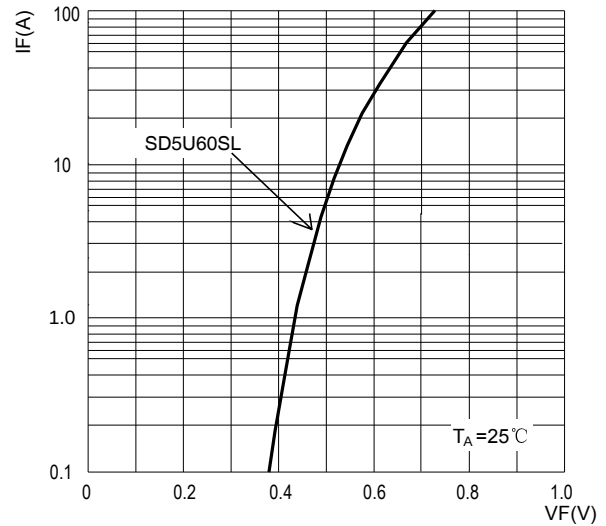


Fig3: Surge Forward Current Capacity

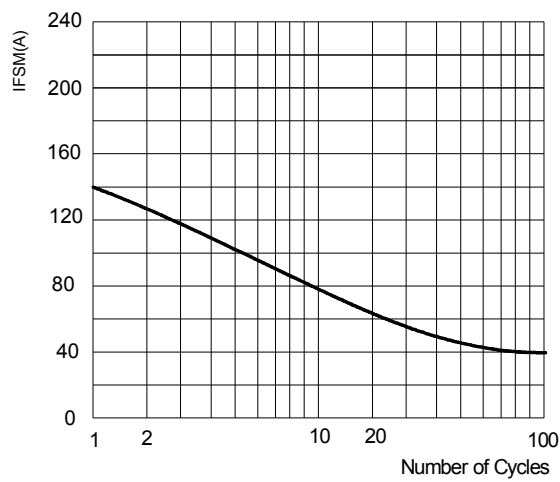
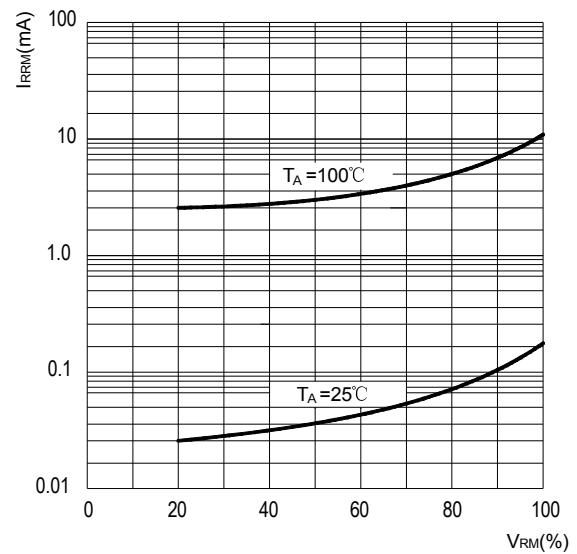
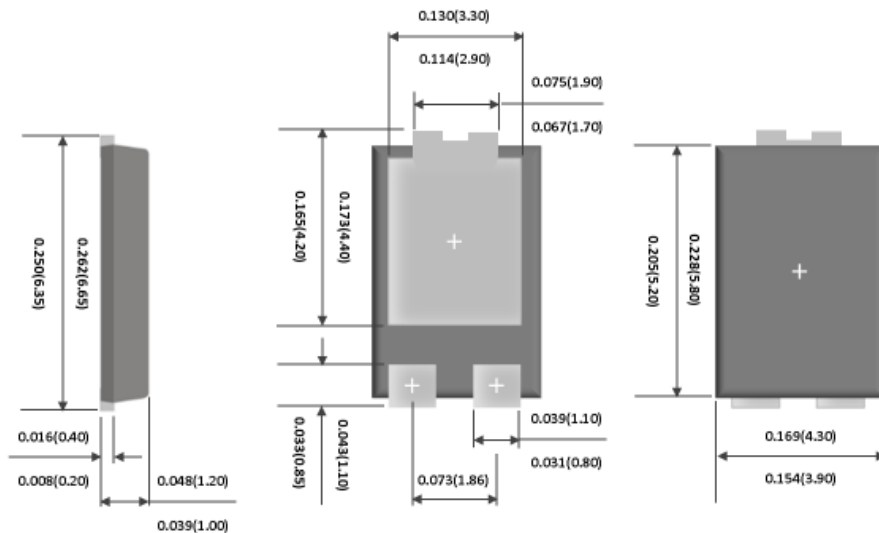


Fig4: Typical Reverse Characteristics

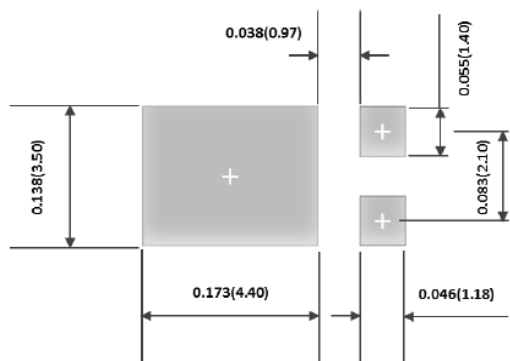


TO-277B PACKAGE OUTLINE DIMENSIONS



unit: mm

FOOT PRINT RECOMMENDATION



unit: mm