

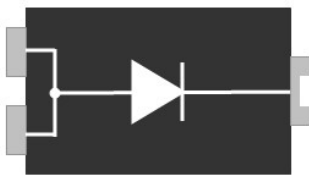
## FEATURES

- ✧ 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:SD15U100SL
- ✧ Package: TO-277
- ✧ Material: Halogen free
- ✧ Packing: Tape & 13" Reel
- ✧ Quantity per reel:  
5,000pcs

## PIN CONFIGURATION



## MACHANICAL DATA

- ✧ Case: TO-277 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



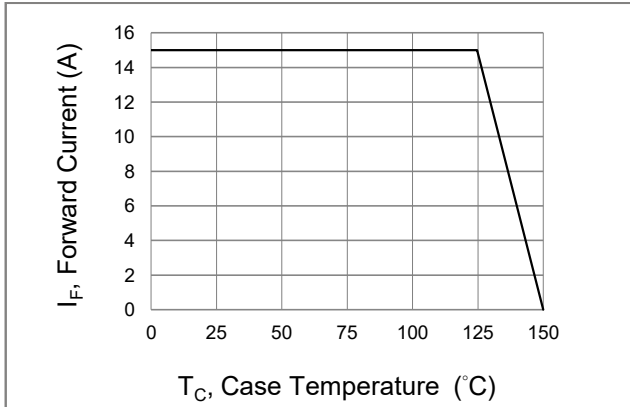
### ABSOLUTE MAXIMUM RATING ( $T_{amb}=25^{\circ}C$ , unless otherwise specified)

Symbol	Parameter	Value	Units
$V_{RRM}$ $V_{RWM}$ $V_{DC}$	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC blocking voltage	100	V
$V_{R(RMS)}$	RMS Rectified Voltage	70	V
$I_{F(AV)}$	Average Forward Current	15	A
$I_{FSM}$	Peak Forward Surge Current, 8.3ms single half sine-wave	220	A
$R_{\theta JA}$ $R_{\theta JL}$	Typical Thermal Resistance Junction to Ambient	70 6	$^{\circ}C/W$
$T_J$ & $T_{STG}$	Junction and Storage Temperature	-55~+150	$^{\circ}C$

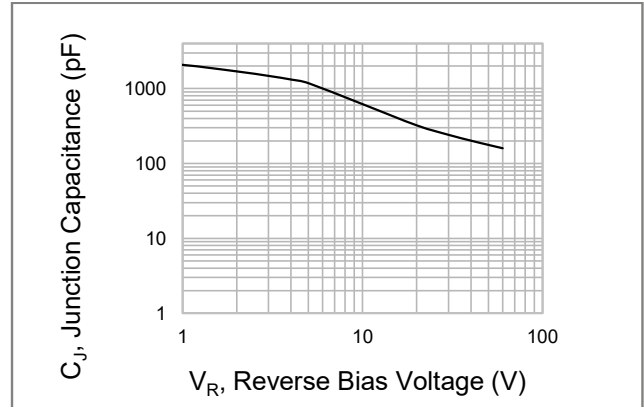
### ELECTRICAL CHARACTERISTICS ( $T_{amb}=25^{\circ}C$ , unless otherwise specified)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
$V_F$	Forward Voltage	$I_F = 10A @ 25^{\circ}C$		0.60	0.65	V
$I_R$	Reverse Leakage Current	@ $25^{\circ}C$		120	200	$\mu A$
		@ $125^{\circ}C$		15	20	mA

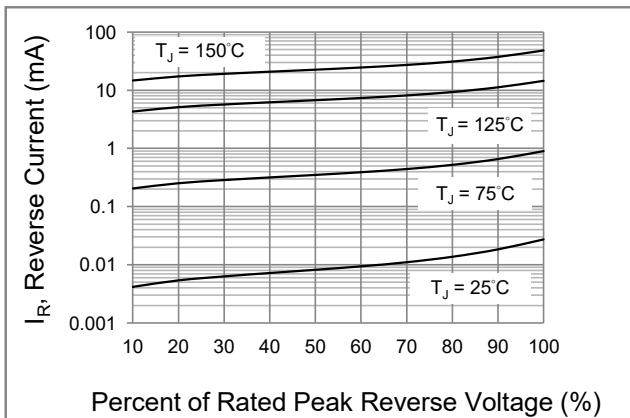
## ELECTRICAL CHARACTERISTICS CURVE



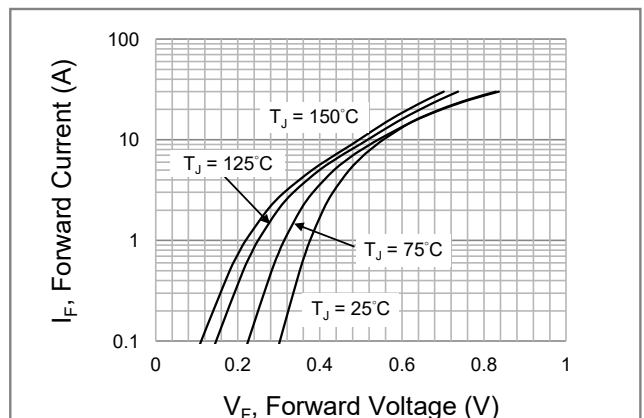
**Fig.1 Forward Current Derating Curve**



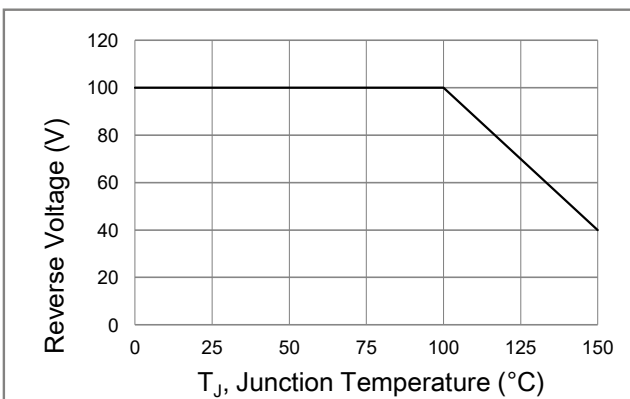
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**

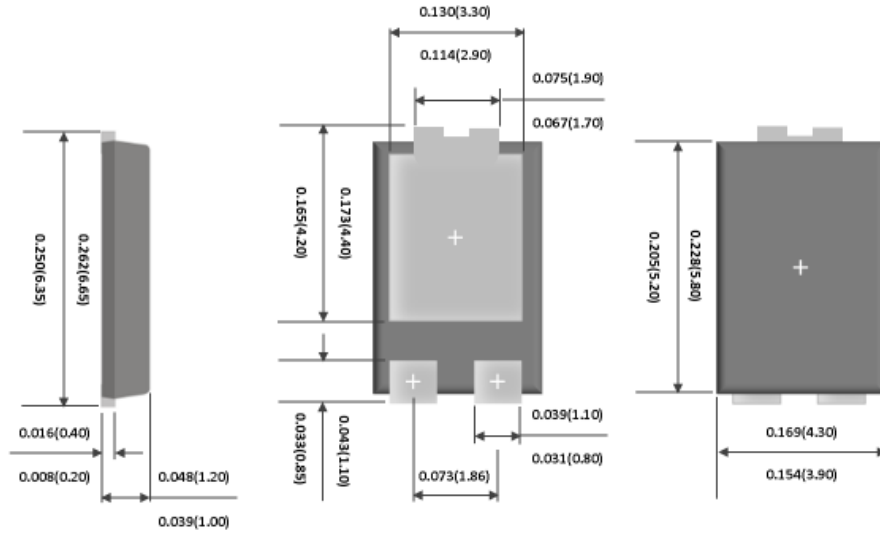


**Fig.4 Typical Forward Characteristics**



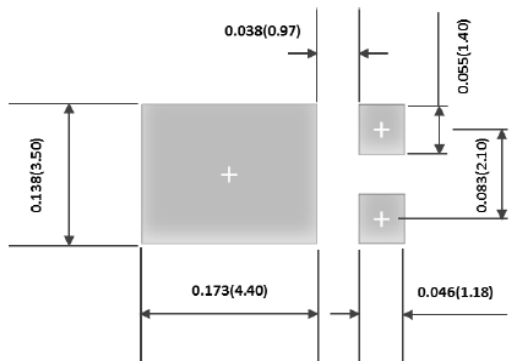
**Fig.5 Operating Temperature Derating Curve**

## TO-277 PACKAGE OUTLINE DIMENSIONS



unit: mm

## FOOT PRINT RECOMMENDATION



unit: mm

PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG
TO-277	5000/REEL	80000	41X38X36	12.00

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