

# SSL60HS

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 60 Volts CURRENT 1.0 Ampere

#### FEATURES

- \*High current rectifier Schottky diodes
- \* Low voltage Low inductance \*For detection and step-up-conversion

#### **MECHANICAL DATA**

resistive or inductive load.

\* Epoxy: Device has UL flammability classification 94V-O \* Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Marking

Type number	Marking code
SSL60HS	V16

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)			
RATINGS	SYMBOL	SSL60HS	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	Volts
Maximum RMS Voltage	VRMS	42	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	Volts
Maximum Average Forward Rectified Current @ T <sub>C</sub> =125°C	Io	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	25	Amps
Current Squared Time	l <sup>2</sup> t	2.6	A <sup>2</sup> S
Typical Junction Capacitance (Note 1)	Cj	130	pF
Typical Thermal Resistance	R <sub>θ</sub> JA	130	°C/W
Operating Temperature Range	TJ	-50 to + 150	° C
Storage Temperature Range	Tstg	-50 to + 150	٥C

#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SSL60HS	UNITS
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	0.60	Volts
Maximum Average Reverse Current	@TA = 25°C	1-	0.15	mAmps
at Rated DC Blocking Voltage	@Ta = 150°C	IR	20	mAmps
NOTES : 1 Measured at 1 MHz and applied revers	e voltage of 4 Volts			2023-12/85

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4 Volts. 2. RoHS compliant

REV:0

# **RATING AND CHARACTERISTICS CURVES (SSL60HS)**

#### Fig.1 Forward Current Derating Curve











Fig.4 Typical Forward Characteristic









### PACKAGE OUTLINE Plastic surface mounted package; 2 leads

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SOD323FL
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**CRECTRON** -



### The recommended mounting pad size



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	CARTON SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD323FL	-W/-T	3,000	24,000	185*180*105	550*210*220	120,000	

Tape and reel data (Units: mm)







KO
2
3
19
T

A0	B0	K0	P0	P1	P2
1.60±0.05	2.70±0.05	0.87±0.05	4.0±0.1	4.0±0.1	2.0±0.05
Т	Е	F	D0	D1	W

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