

SS15100

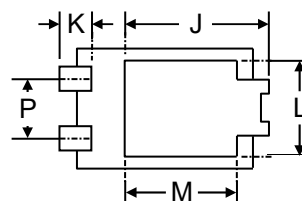
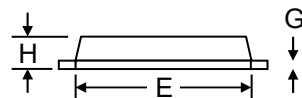
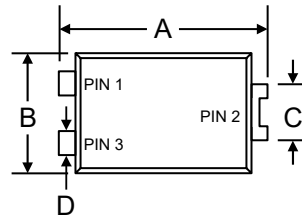
Surface Mount Schottky Rectifier

Features

- **Schottky Technology**
- **Low Profile Flatpack 1.1mm Case Height**
- Extremely Fast Switching
- Low Forward Voltage Drop
- Low Conduction Losses
- Designed for Surface Mount Application
- Plastic Material – UL Flammability 94V-0

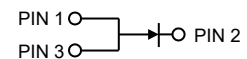
Mechanical Data

- Case: TO-277B, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 0.09 grams (approx.)
- Mounting Position: Any
- Marking: Device Code, See Page 3
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**



TO-277B		
Dim	Min	Max
A	6.40	6.60
B	3.80	4.30
C	1.70	1.90
D	0.80	1.00
E	5.20	5.80
G	0.33	0.43
H	1.00	1.20
J	4.35	4.65
K	0.74	1.10
L	3.10 Typical	
M	3.50	3.70
P	1.90 Typical	

All Dimensions in mm



Maximum Ratings @T_A=25°C unless otherwise specified

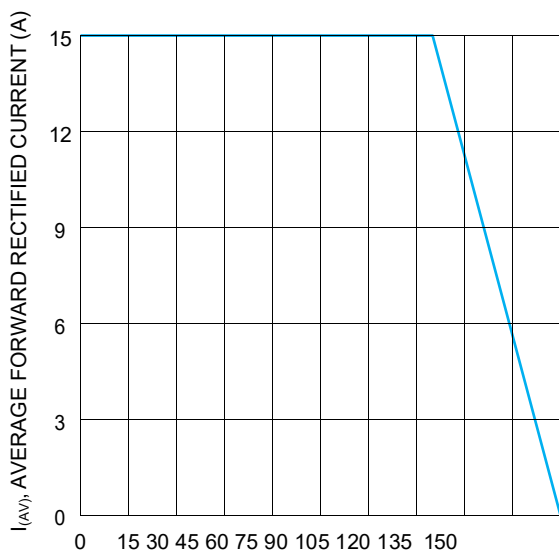
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
Average Rectified Output Current (Note 1) @T _L = 110°C	I _O	15	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	250	A
Thermal Resistance Junction to Case (Note 1)	R _{θJC}	9.0	°C/W
Thermal Resistance Junction to Ambient (Note 1)	R _{θJA}	60	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-40 to +150	°C

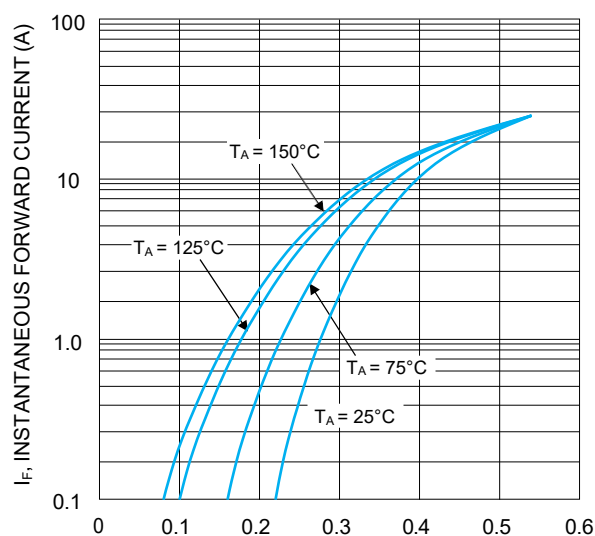
Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Test Conditions	Symbol	Typ	Max	Unit
Forward Voltage	I _F = 1.0A	V _F	0.35	—	V
	I _F = 2.0A		0.38	—	
	I _F = 15A		0.76	0.8	
	I _F = 1.0A		0.25	—	
	I _F = 2.0A		0.30	—	
	I _F = 15A		0.50	—	
Reverse Leakage Current	V _R = 40V	I _R	65	—	μA
	V _R = 50V		—	5.0	
	V _R = 40V		10	—	mA
	V _R = 50V		15	—	

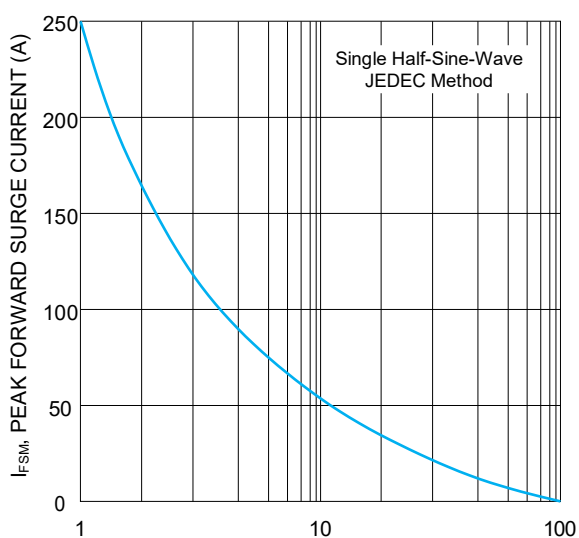
Note: 1. Mounted on FR-4 PC board with 100mm x 100mm copper pad area.



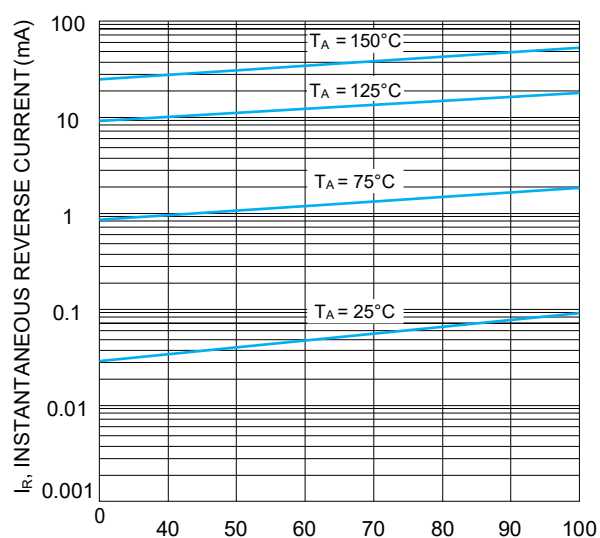
T_L , LEAD TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60Hz
Fig. 3 Forward Surge Current Derating Curve



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 4 Typical Reverse Characteristics

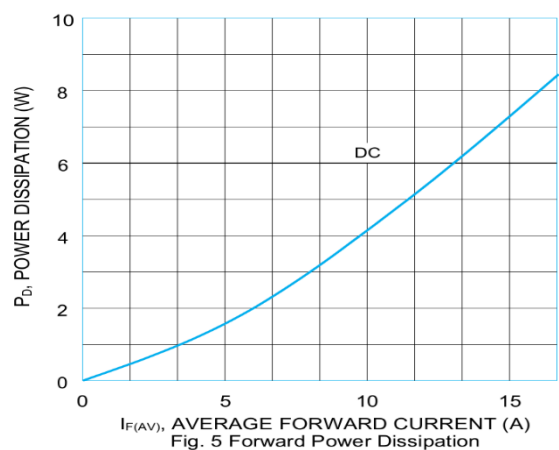


Fig. 5 Forward Power Dissipation

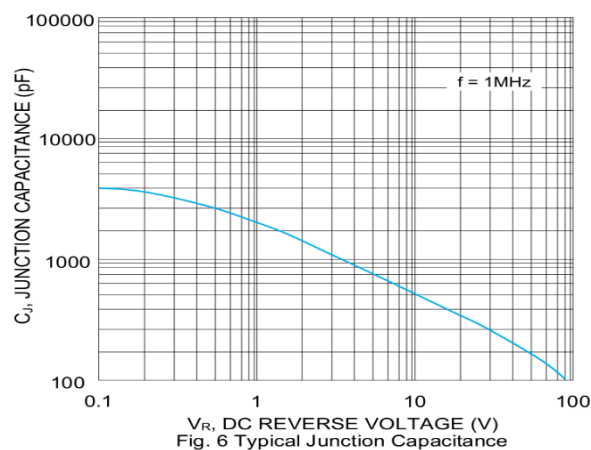
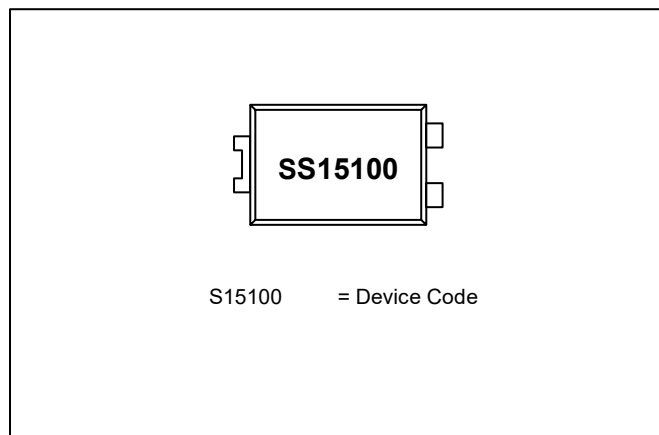
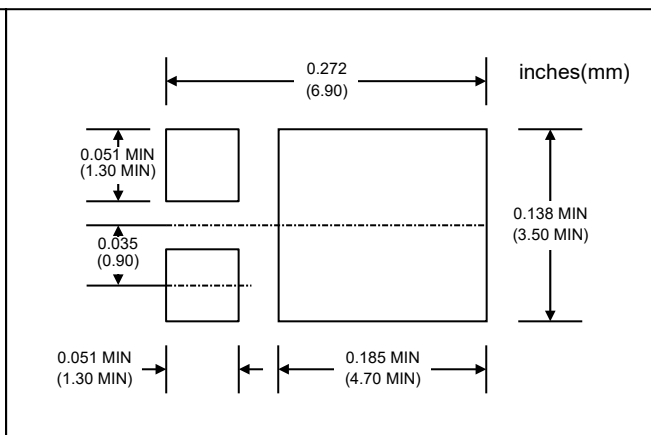


Fig. 6 Typical Junction Capacitance

MARKING INFORMATION

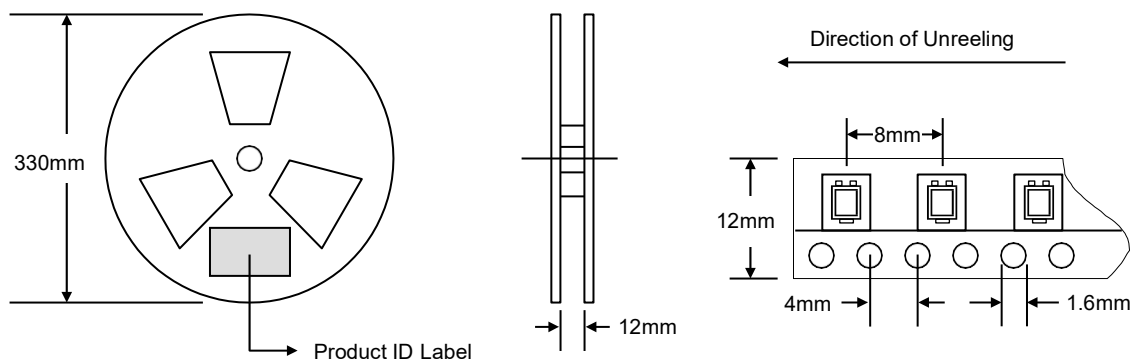


RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	5,000	340 x 337 x 45	10,000	370 x 370 x 420	80,000	21.0

Note: 1. Paper reel, white or gray color.
2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SS15100-T3	TO-277	5000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SS15100-T3-LF.**

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