

15A SURFACE MOUNT TRENCH MOS SCHOTTKY RECTIFIER



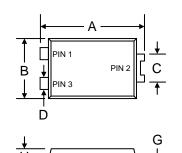
TMS1550L

Features

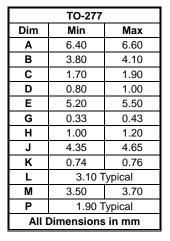
- Trench MOS Schottky Technology
- Low Profile Flatpack 1.1mm Case Height
- Extremely Fast Switching
- Low Forward Voltage Drop
- Low Conduction Losses
- Designed for Surface Mount Application
- Plastic Material UL Flammability 94V-0

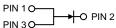
Mechanical Data

- Case: TO-277, 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



M





Maximum Ratings @T_A=25°C unless otherwise specified

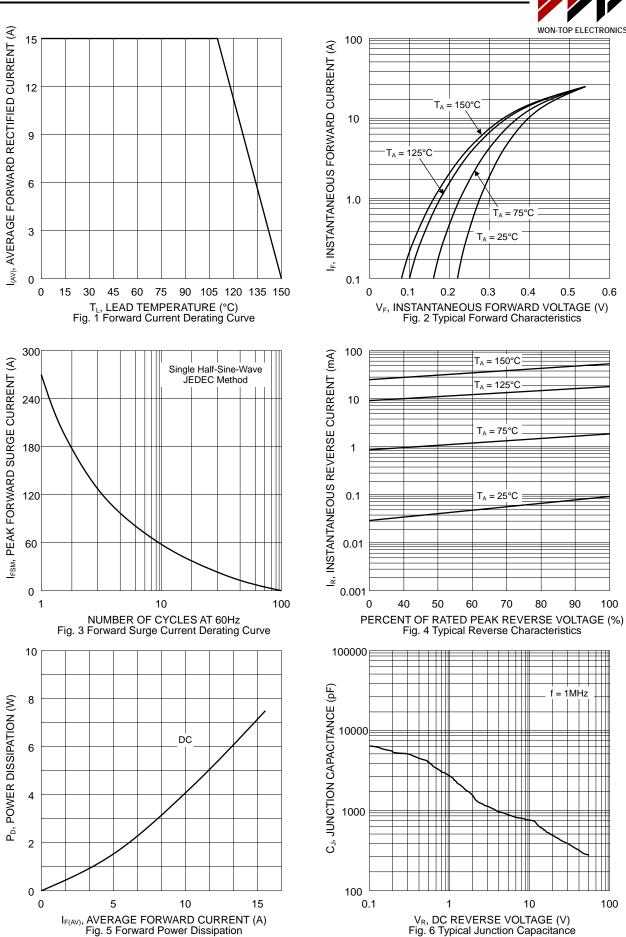
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	V
Average Rectified Output Current (Note 1) $@T_L = 110^{\circ}C$	lo	15	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	275	A
Thermal Resistance Junction to Case (Note 1)	RJC	6.0	°C/W
Thermal Resistance Junction to Ambient (Note 1)	R JA	60	°C/W
Operating and Storage Temperature Range	ТJ, Tsтg	-40 to +150	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Test Conditions		Symbol	Тур	Мах	Unit	
Forward Voltage	I _F = 1.0A	T _A = 25°C	– Vf	0.28	_	V	
	$I_{F} = 2.0A$			0.31	_		
	I _F = 15A			0.44	0.49		
	$I_{F} = 1.0A$	T _A = 125°C		0.18	—		
	$I_{F} = 2.0A$		T _A = 125°C		0.21	—	
	I _F = 15A			0.40	—		
Reverse Leakage Current	$V_R = 40V$	- T _A = 25°C	T - 25°C	65	—	μA	
	$V_R = 50V$		IR	—	320		
	$V_R = 40V$	T _A = 125°C	T - 125°C	IK	15	_	mA
	$V_R = 50V$			20	_	IIIA	

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

TMS1550L



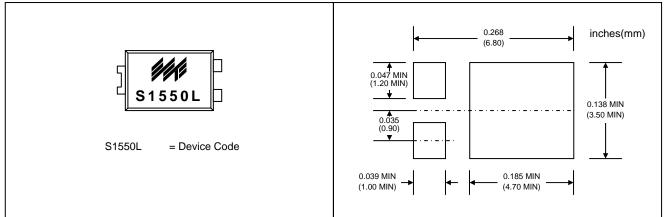
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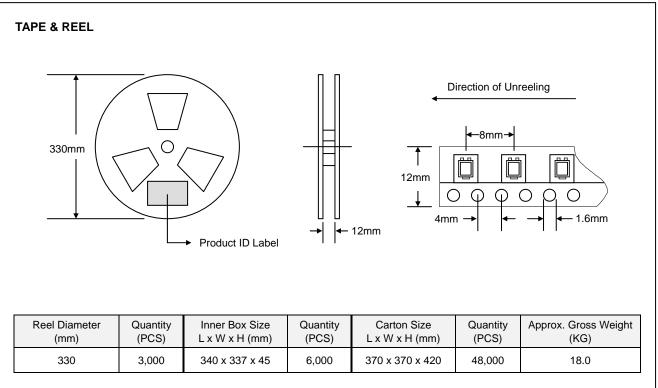


MARKING INFORMATION





PACKAGING INFORMATION



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	
TMS1550L-T3	TO-277	3000/Tape & Reel	

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
To order RoHS / Lead Free version (with Lead Free finish), add "-LF"

To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, TMS1550L-T3-LF.

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