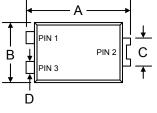


10A SURFACE MOUNT TRENCH MOS SCHOTTKY RECTIFIER

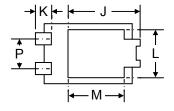


Features

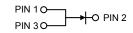
- Trench MOS Schottky Technology
- Low Profile Flatpack 1.1mm Case Height
- Extremely Fast Switching
- Low Forward Voltage Drop
- Low Conduction Losses
- Designed for Surface Mount Application
- Plastic Material UL Flammability 94V-0







TO-277				
Dim	Min	Max		
Α	6.40	6.60		
В	3.80	4.10		
С	1.70	1.90		
D	0.80	1.00		
Е	5.20	5.50		
G	0.33	0.43		
Н	1.00	1.20		
J	4.35 4.65			
K	0.74	0.76		
L	3.10 Typical			
М	3.50	3.70		
Р	1.90 Typical			
All Dimensions in mm				



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

Maximum Ratings @TA=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	VRRM VRWM VR	100	٧
Average Rectified Output Current (Note 1) @T _L = 125°C	lo	10	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	150	А
Thermal Resistance Junction to Lead (Note 1)	R JL	3.0	°C/W
Thermal Resistance Junction to Ambient (Note 2)	R JA	60	°C/W
Operating and Storage Temperature Range	ТJ, Tsтg	-55 to +150	°C

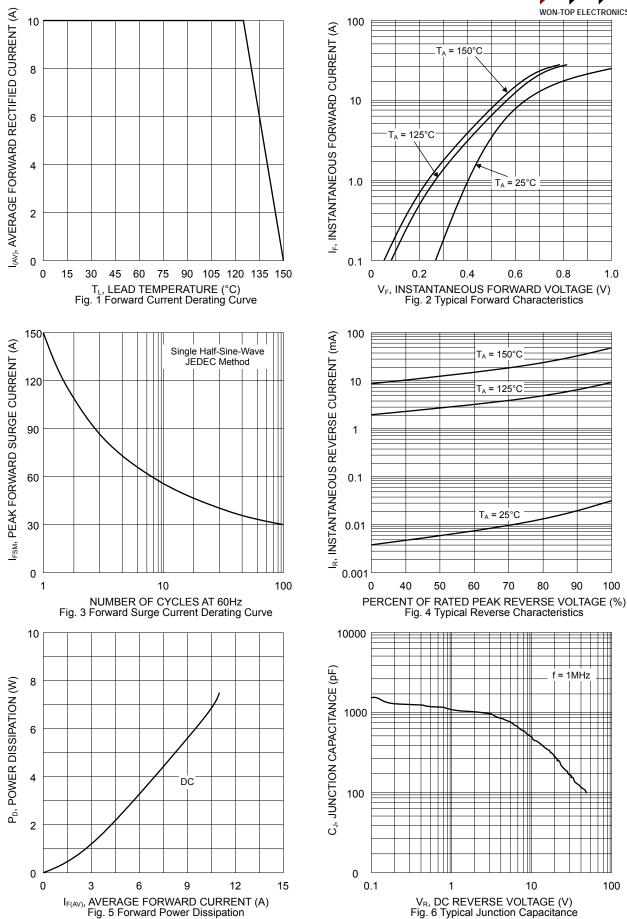
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Test Conditions		Symbol	Тур	Max	Unit
Forward Voltage (Note 3)	I _F = 5.0A	T _A = 25°C	VF	0.56	_	V
	I _F = 10A			0.65	0.68	
	I _F = 5.0A	T _A = 125°C		0.48	_	
	I _F = 10A			0.56	_	
Poverse Leakage Current (Note 4)	V _R = 100V	T _A = 25°C	lR	_	0.10	mA
Reverse Leakage Current (Note 4)		T _A = 125°C		9.3	_	

Note: 1. Mounted on aluminum substrate PC board with 30mm x 30mm pad area.

- 2. Mounted on FR-4 PC board with minimum recommended pad area.
- 3. Pulse width \leq 300 μ s, 1% duty cycle.
- 4. Pulse width ≤ 40ms.

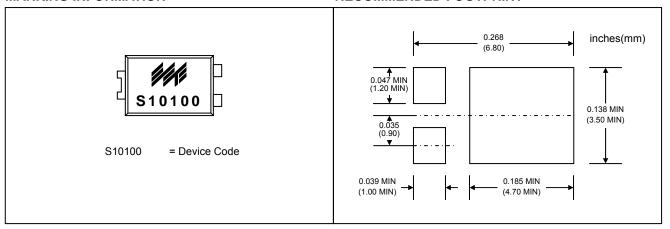






MARKING INFORMATION

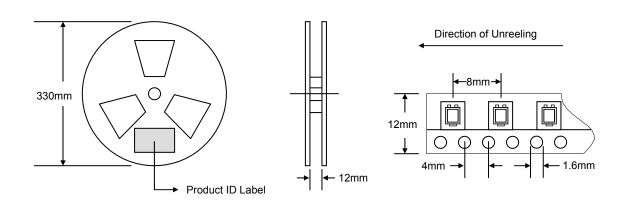
RECOMMENDED FOOTPRINT



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	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	18.0

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		
TMS10100-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" suffix to part number above. For example, TMS10100-T3-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road,

Chine Chen Dist., Kaohsiung 806, Taiwan **Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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