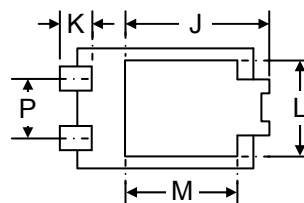
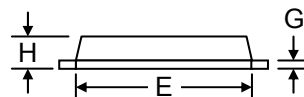
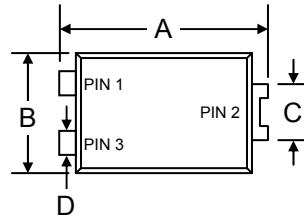


Features

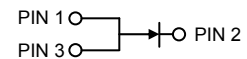
- **Trench MOS Schottky Technology**
- **Low Profile Flatpack 1.1mm Case Height**
- Extremely Fast Switching
- Low Forward Voltage Drop
- Low Conduction Losses
- Designed for Surface Mount Application
- Plastic Material – UL Flammability 94V-0

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**



TO-277		
Dim	Min	Max
A	6.40	6.60
B	3.80	4.10
C	1.70	1.90
D	0.80	1.00
E	5.20	5.50
G	0.33	0.43
H	1.00	1.20
J	4.35	4.65
K	0.74	0.76
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

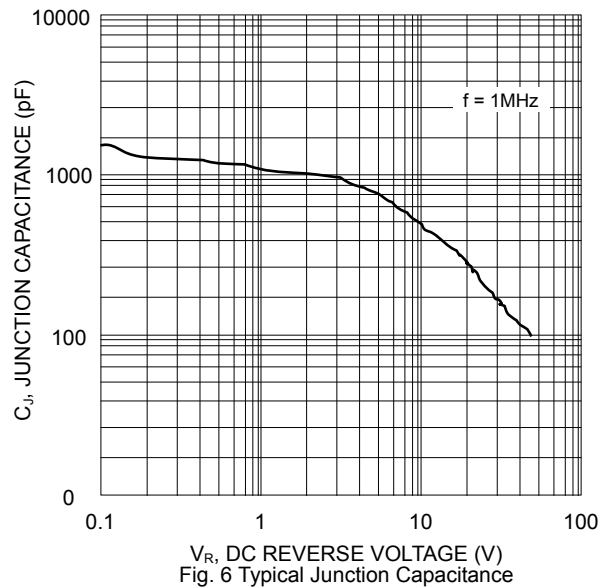
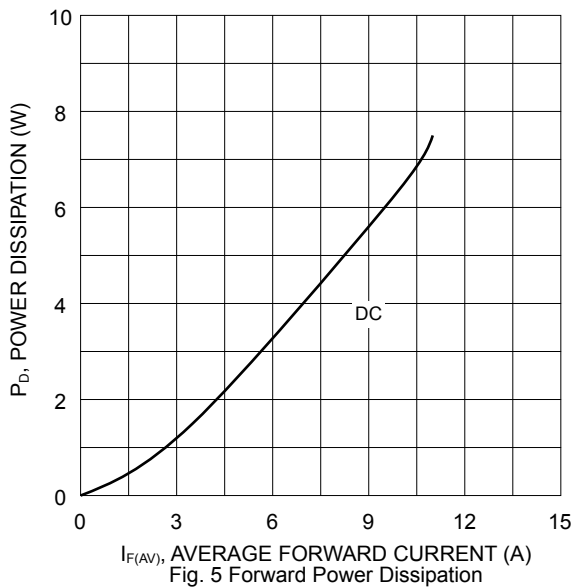
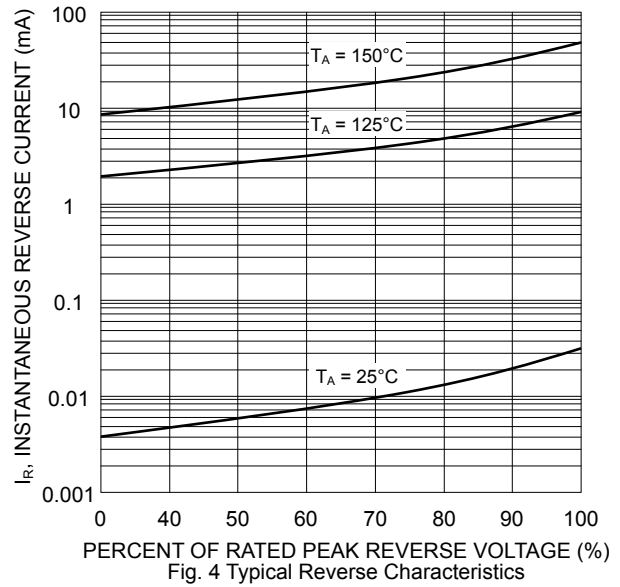
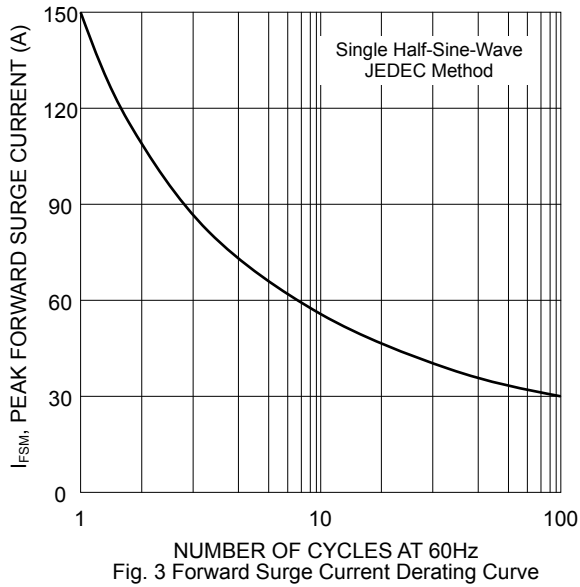
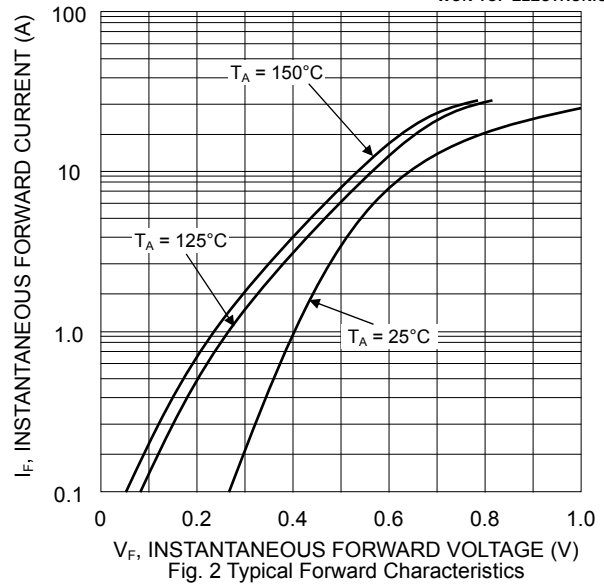
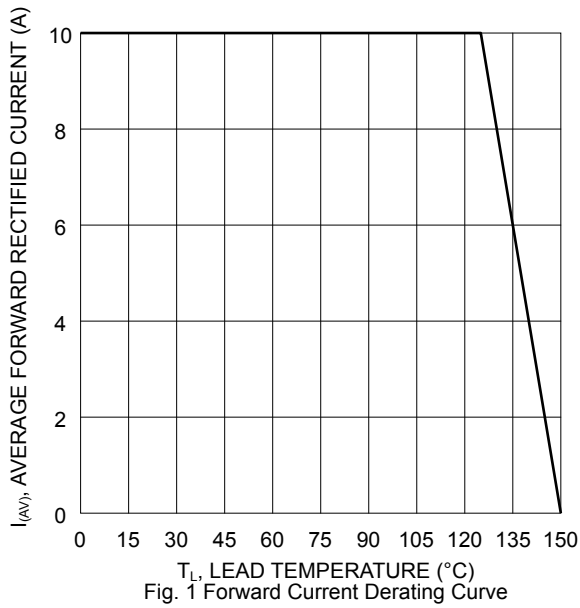
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 = 125°C	I _O	10	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	150	A
Thermal Resistance Junction to Lead (Note 1)	R _{θJL}	3.0	°C/W
Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}	60	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Test Conditions		Symbol	Typ	Max	Unit
Forward Voltage (Note 3)	I _F = 5.0A	T _A = 25°C	V _F	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	—	
Reverse Leakage Current (Note 4)	V _R = 100V	T _A = 25°C	I _R	—	0.10	mA
		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 ≤ 300μs, 1% duty cycle.
 4. Pulse width ≤ 40ms.

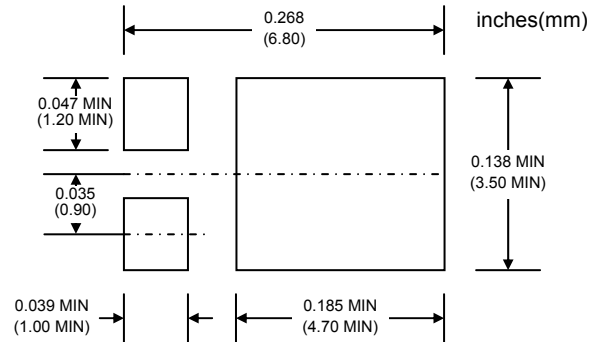


MARKING INFORMATION



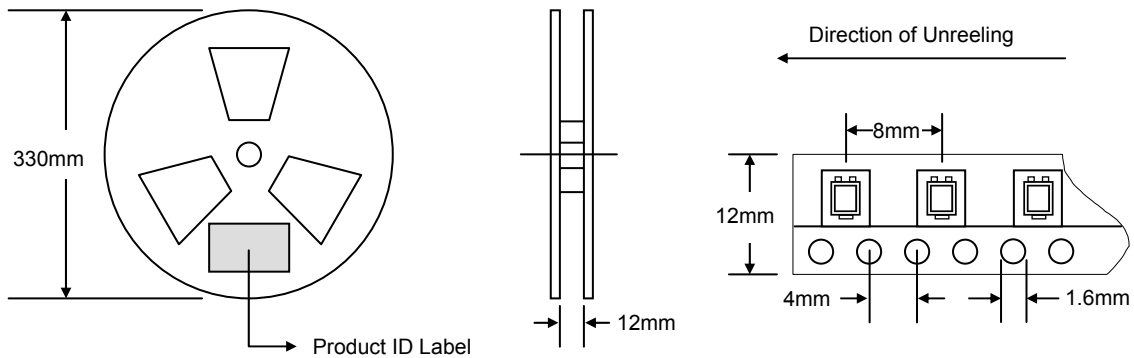
S10100 = Device Code

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

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, TMS10100-T3-LF.**

WON-TOP ELECTRONICS and  are registered trademarks of Won-Top Electronics Co., Ltd (WTE). WTE has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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>

We power your everyday.