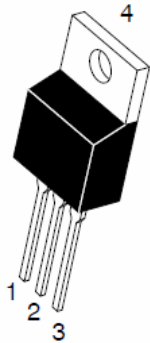
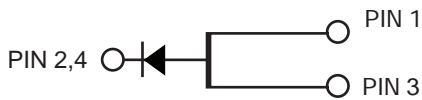


Trench MOS Barrier Schottky Rectifier

TO-220AB
TSR10L100CT-S



ITO-220AB
TSR10L100CTF-S



Features

- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

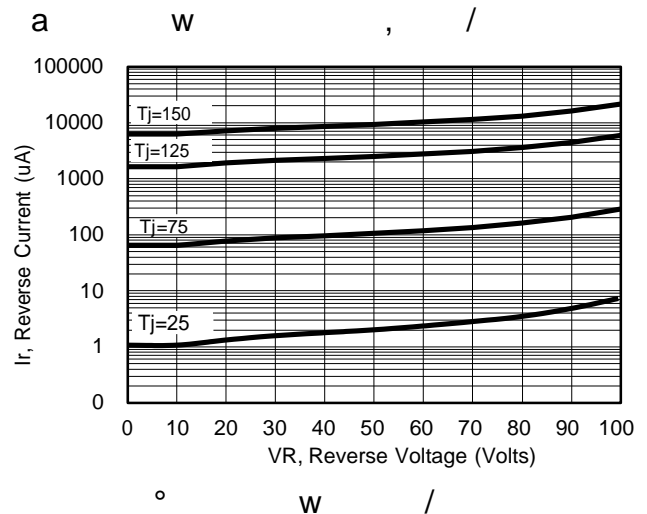
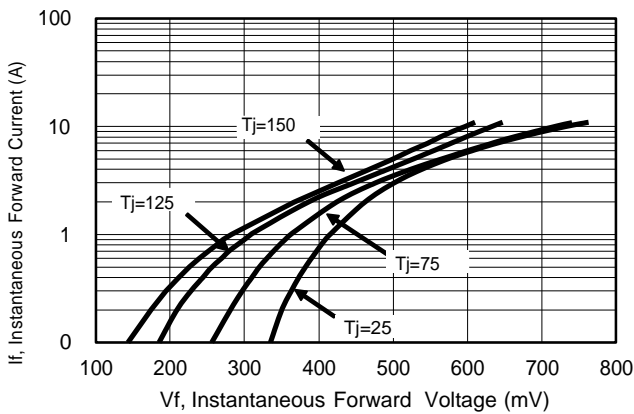
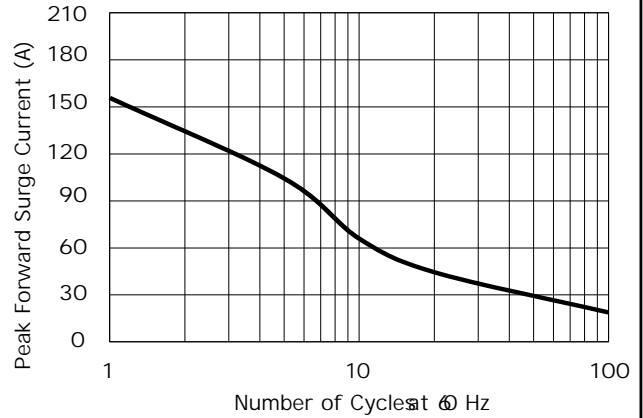
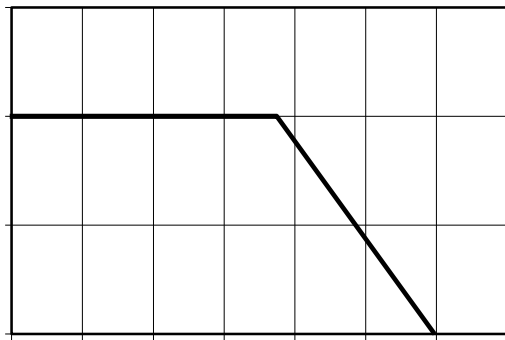
| Parameter | | Symbol | Limit | | Unit |
|---|------------|----------|-------------|------|------|
| Maximum repetitive peak reverse voltage | | VRRM | 100 | | V |
| Maximum average forward rectified current | per device | IF(AV) | 10 | | A |
| Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode | | IFSM | 160 | | A |
| Operating junction and storage temperature range | | TJ, TSTG | -55 to +150 | | °C |
| Typical thermal resistance per leg | TO-220AB | RθJC | 2 | | °C/W |
| | ITO-220AB | | 4 | | °C/W |
| Instantaneous forward voltage per diode | | | TYP. | MAX. | V |
| | IF=2A | TJ=25°C | 0.44 | 0.50 | |
| | IF=2A | TJ=125°C | 0.39 | - | |
| | IF= 0A | TJ=25°C | 0.63 | 0.70 | |
| Instantaneous reverse current per diode at rated reverse voltage | | | - | 50 | µA |
| | | | - | 0 | mA |

Notes:

(1) Pulse test: 300 µs pulse width, 1 % duty cycle

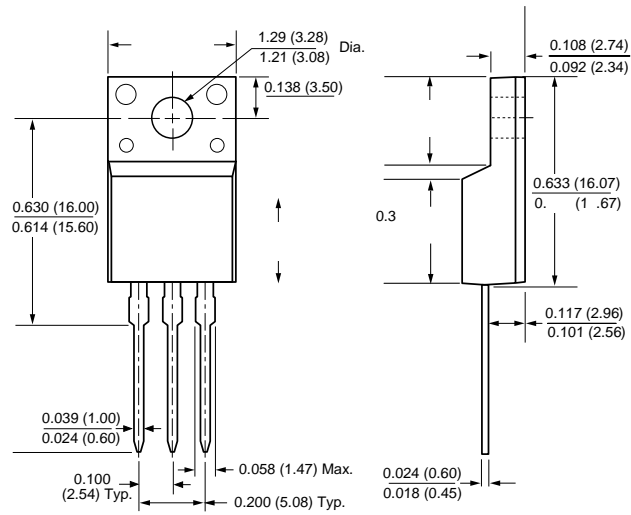
(2) Pulse test: Pulse width ≦ 40 ms

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



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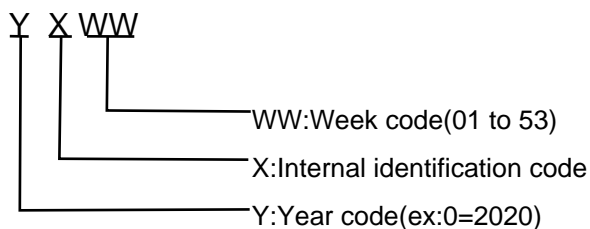
PACKAGE OUTLINE DIMENSIONS



Marking Information

- ①W : Company's trademark
- ②Product model : TSR L10 CT or TSR L10 CTF

③PDC information



Packaging Information

1.Tube Dimensions

2.Inside Box

3.Outside Box

Packaging Information

| NO | UNIT | Tube Dimensions | | Inside Box | Outside Box |
|------|------|-----------------|---|------------|-------------|
| | | A | B | | |
| Size | mm | | | | |