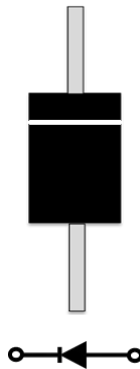


Trench MOS Barrier Schottky Rectifier

DO-201AD
TSA



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)

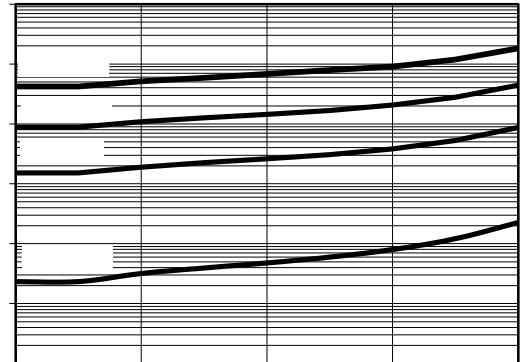
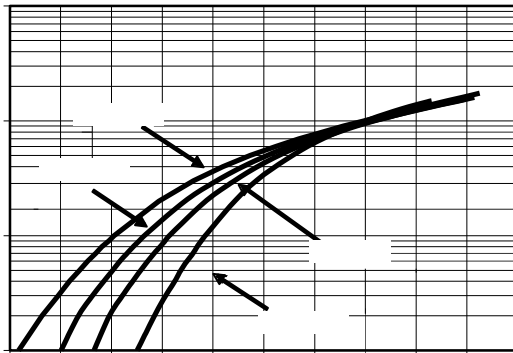
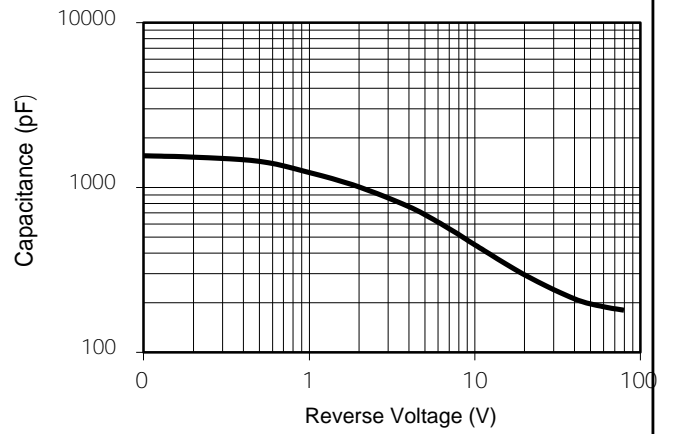
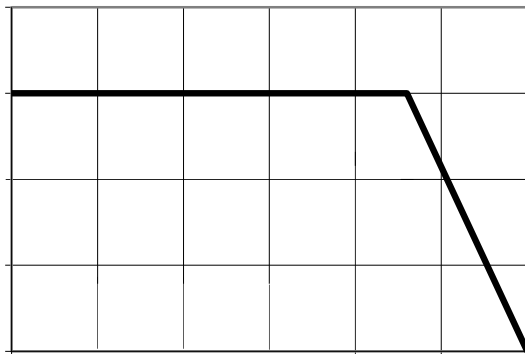
| Parameter | | Symbol | Limit | | Unit |
|-----------------------------------------------------------------------------------------------|----------|----------|-------------|------|------|
| Maximum repetitive peak reverse voltage | | VRRM | 45 | | V |
| Maximum average forward rectified current | | IF(AV) | 15 | | A |
| Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode | | IFSM | 200 | | A |
| Operating junction and storage temperature range | | TJ, TSTG | -50 to +150 | | °C |
| Typical thermal resistance per leg | DO-201AD | RθJC | 22 | | °C/W |
| Instantaneous forward voltage per diode | | | TYP. | MAX. | V |
| | IF=3A | TJ=125°C | 0. | | |
| | IF=15A | TJ=125°C | | | |
| Instantaneous reverse current per diode at rated reverse voltage | TJ=25°C | IR(2) | | 200 | uA |
| | TJ=125°C | | | 50 | mA |

Notes:

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

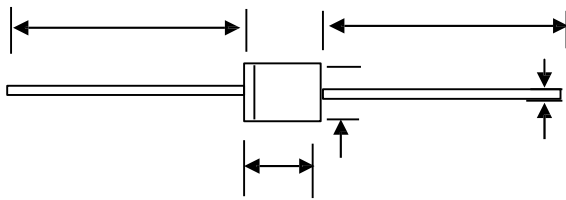
(2) Pulse test: Pulse width 0.40 ms

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



PACKAGE OUTLINE DIMENSIONS

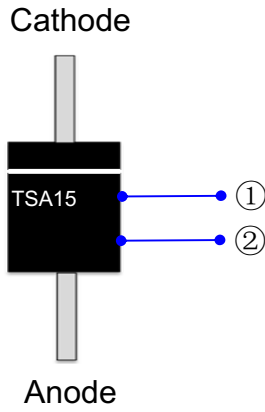
DO-201AD



DO-201AD mechanical data

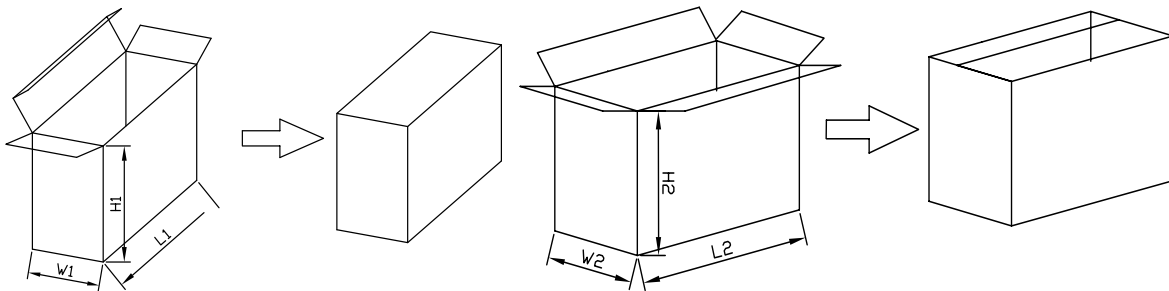
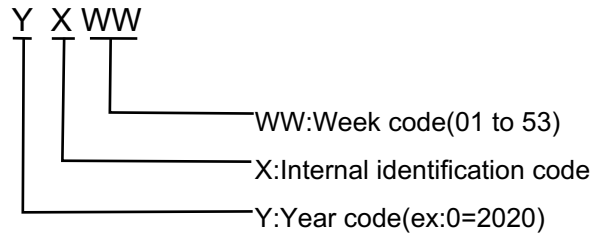
| UNIT | | A | B | | D |
|------|-----|---------|--------|---|--------|
| mm | max | 26.5 | 9.5 | 4 | 5.3 |
| | min | 24.5 | 7.3 | 1 | 4.8 |
| mil | max | 1043.30 | 374.01 | | 208.67 |
| | min | 946.57 | 287.40 | | 188.97 |

Marking Information



Product model : TSA15L45

PDC information



| | | | | | | | |
|--|--|--|--|---|---|--|--|
| | | | | | | | |
| | | | | 4 | 4 | | |
| | | | | | | | |
| | | | | | | | |