

Trench MOS Barrier Schottky Rectifier

DO-201AD
TSA 3



Cathode  Anode 

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)

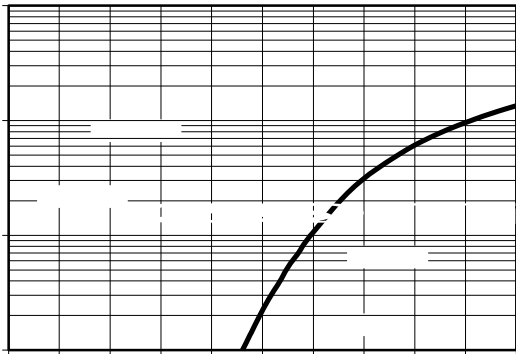
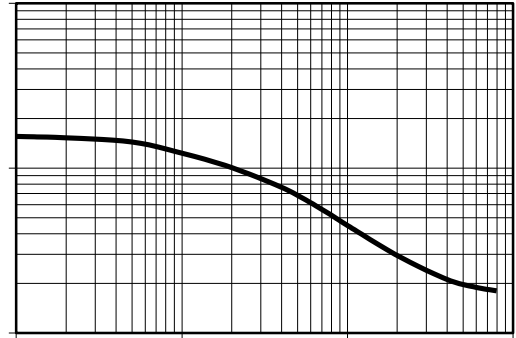
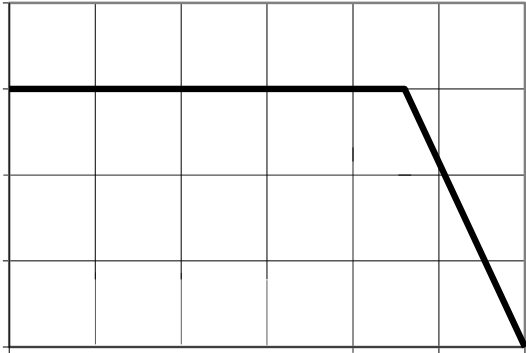
| Parameter | | Symbol | Limit | | Unit |
|---|----------|----------|-------------|------|------|
| Maximum repetitive peak reverse voltage | | VRRM | 80 | | V |
| Maximum average forward rectified current | | IF(AV) | 15 | | A |
| Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode | | IFSM | 180 | | A |
| Operating junction and storage temperature range | | TJ, TSTG | -40 to +150 | | °C |
| Typical thermal resistance per leg | DO-201AD | RθJC | 22 | | °C/W |
| Instantaneous forward voltage per diode | | | TYP. | MAX. | V |
| | IF=2A | TJ=25°C | 0.47 | 0.50 | |
| | IF=2A | TJ=125°C | 0.42 | - | |
| | IF=15A | TJ=25°C | 0.69 | | |
| | IF=15A | TJ=125°C | 0.64 | - | |
| Instantaneous reverse current per diode at rated reverse voltage | TJ=25°C | IR(2) | - | 50 | uA |
| | TJ=125°C | | - | 20 | mA |

Notes:

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

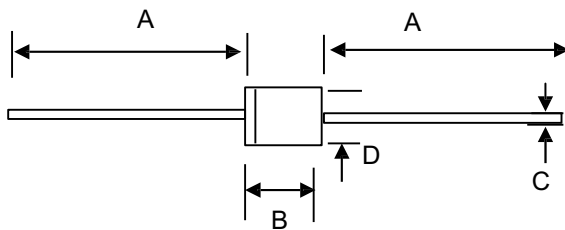
(2) Pulse test: Pulse width ≦ 40 ms

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



PACKAGE OUTLINE DIMENSIONS

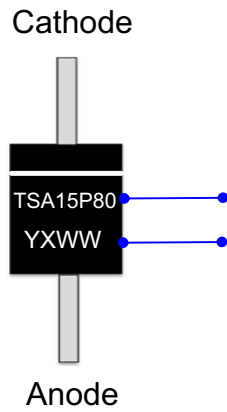
DO-201AD



DO-201AD mechanical data

| UNIT | | A | B | C | D |
|------|-----|---------|--------|-------|--------|
| mm | max | 26.5 | 9.5 | 1.4 | 5.3 |
| | min | 24.5 | 7.3 | 1.1 | 4.8 |
| mil | max | 1043.30 | 374.01 | 55.12 | 208.67 |
| | min | 946.57 | 287.40 | 39.37 | 188.97 |

Marking Information



Product model : TSA15P80

PDC information

Y X WW

WW:Week code(01 to 53)

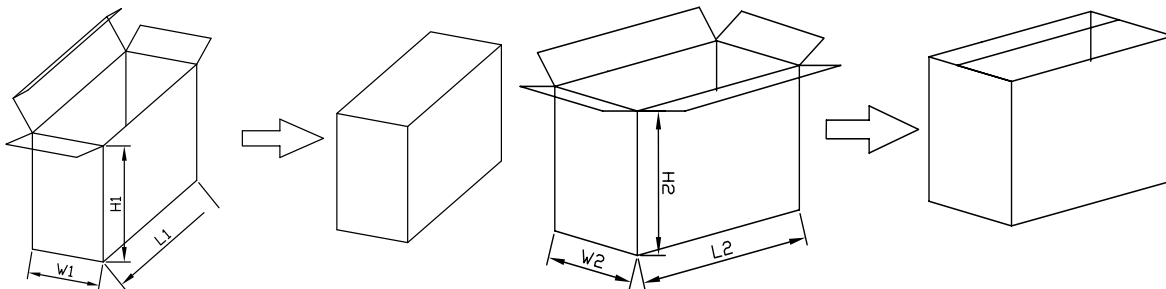
X:Internal identification code

Y:Year code(ex:0=2020)

Packaging Information

1.Inside Box

2.Outside Box



Packaging Information

| NO | UNIT | Inside Box | | | Outside Box | | |
|------|-----------|---------------------------------|----|----------------|------------------------------------|-----|-----|
| | | L1 | W1 | H1 | L2 | W2 | H2 |
| Size | mm | 255 | 75 | 145 | 415 | 280 | 320 |
| QTY | PCS | Smallest package,1000PCS/carton | | | 10,000PCS/carton,10 boxes in total | | |
| Note | Tolerance | ≤20mm,±3mm; | | 21-100mm,±5mm; | 101-500mm,±10mm | | |