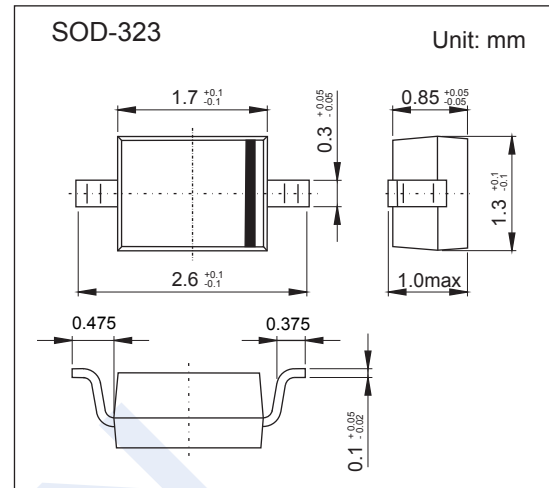


ESD Protection Diodes

ESD3Z5V0 ~ ESD3Z12

■ Features

- Nominal stand-off voltage:5.0V,12V
- Plastic material has UL classification 94V-0
- Standard packaging taped and reeled
- Standard Lieferform gegurtet auf Rolle
- Peak pulse power dissipation :350W



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|--|------------------|------------|------|
| ESD immunity (HBM, air discharge, IEC 61000-4-2) | V _{PP} | 30 | KV |
| ESD-Festigkeit (HBM, Luftentladung, IEC 61000-4-2) | | | |
| Peak Pulse Power @ tp = 8/20 us | P _{PP} | 350 | W |
| Junction Capacitance ESD3Z5V0 | C _T | 350 | pF |
| Junction Capacitance ESD3Z12 | | 150 | |
| Junction Temperature | T _J | 125 | °C |
| Storage Temperature range | T _{stg} | -50 to 150 | |

■ Electrical Characteristics Ta = 25°C

| Type Typ | Stand-off voltage Sperrspannung | Max. rev. current Max. Sperrstrom at / bei V _{WM} | Breakdown voltage Abbruch-Spannung at / bei I _s = 1 mA | Max. clamping voltage Max. Begrenzer-Spannung at / bei I _{PPM} (8/20 μs) | | | |
|-------------|------------------------------------|--|---|---|----------------------|--------------------|----------------------|
| | V _{WM} [V] | I _D [μA] | V _{BR} min [V] | V _C [V] | I _{PPM} [A] | V _C [V] | I _{PPM} [A] |
| ESD3Z5V0 | 5.0 | 10 | 6 | 9.8 | 5 | 14.5 | 24 |
| ESD3Z12 | 12 | 1 | 13.3 | 19 | 5 | 25 | 15 |

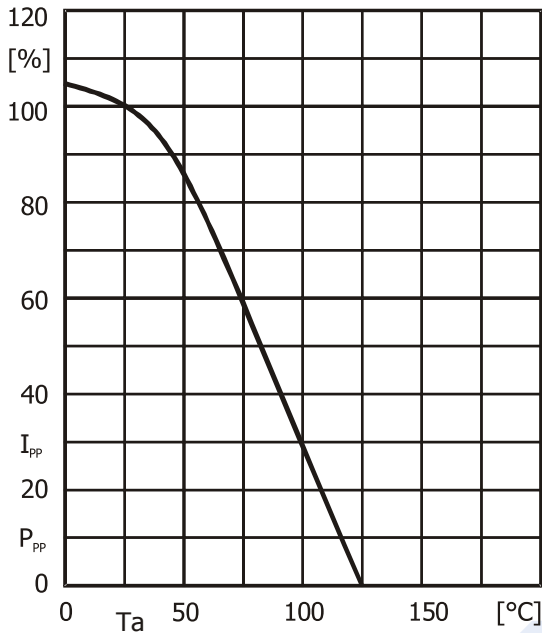
■ Marking

| | | |
|---------|----------|---------|
| NO | ESD3Z5V0 | ESD3Z12 |
| Marking | 5* | 12* |

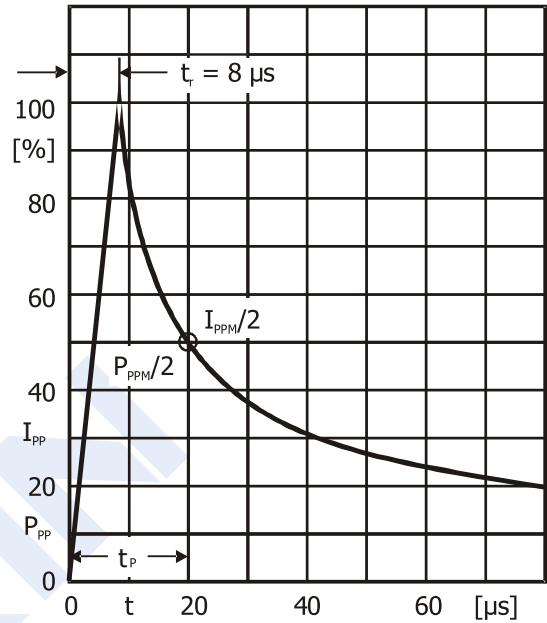
ESD Protection Diodes

ESD3Z5V0 ~ ESD3Z12

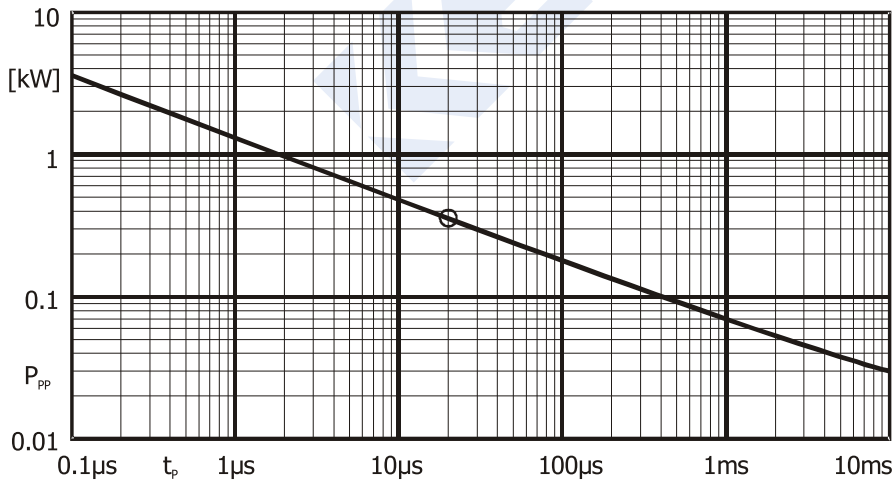
■ Typical Characteristics



Peak pulse power/current vs. ambient temperature
Impuls-Spitzenleistung/Strom vs. Umgebungstemp.



8/20μs - pulse waveform
8/20μs - Impulsform



Non repetitive peak pulse power versus pulse width (10/1000 wave form)
Einzel-Impuls-Spitzenleistung in Abh. von der Pulsdauer (10/1000-Impuls)