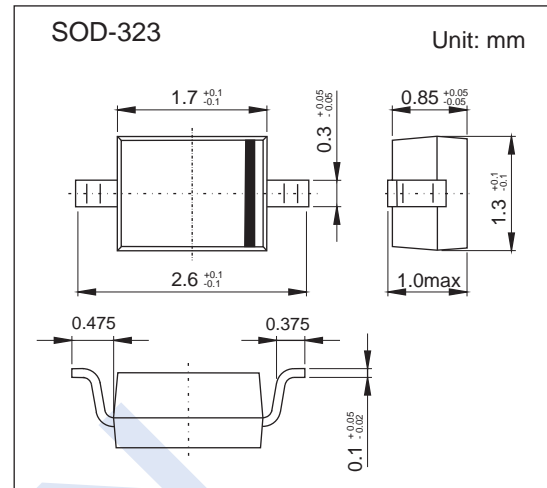


ESD Protection Diodes

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 $T_a = 25^\circ\text{C}$

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 @ $t_p = 8/20 \mu\text{s}$	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 $T_a = 25^\circ\text{C}$

Type Typ	Stand-off voltage Sperrspannung V _{WM} [V]	Max. rev. current Max. Sperrstrom at / bei V _{WM} I _D [μA]	Breakdown voltage Abbruch-Spannung at / bei I _s = 1 mA V _{BR} min [V]	Max. clamping voltage Max. Begrenzer-Spannung at / bei I _{PPM} (8/20 μs)			
				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

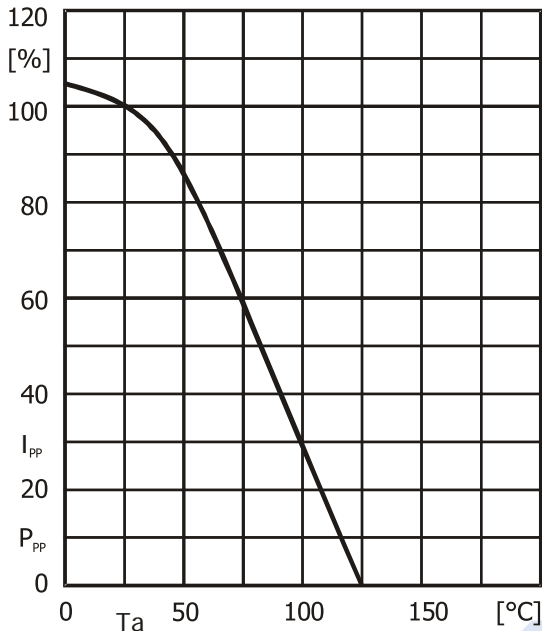
■ Marking

NO	ESD3Z5V0	ESD3Z12
Marking	5*	12*

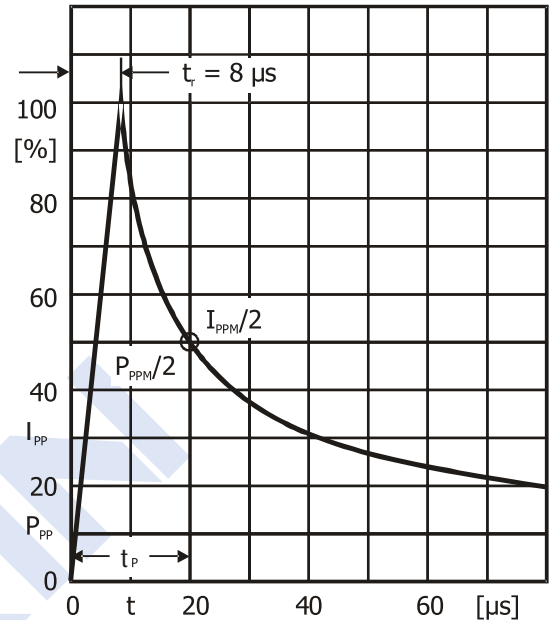
ESD Protection Diodes

ESD3Z5V0 ~ ESD3Z12

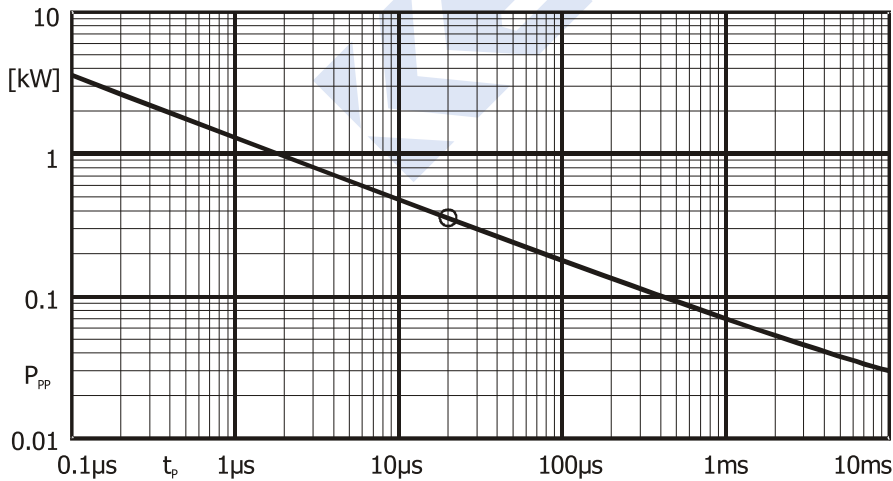
■ Typical Characteristics



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



8/20 μ s - pulse waveform
8/20 μ s - Impulsform



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