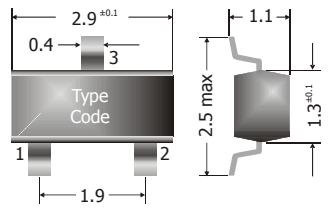
ESD36CA-Q

Transient Voltage Suppressor Diodes for ESD Protection (AEC-Q101)
Spannungs-Begrenzer-Dioden für ESD-Schutzschaltungen (AEC-Q101)

Version 2013-12-02



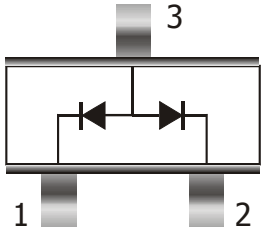
Dimensions - Maße [mm]
1 = C1 2 = C2 3 = A1/A2

Peak pulse power dissipation Maximale Verlustleistung	300 W
Nominal stand-off voltage Nominale Sperrspannung	36 V
Plastic case Kunststoffgehäuse	~ SOT-23
Weight approx. – Gewicht ca.	0.01 g
Plastic material has UL classification 94V-0 Gehäusematerial UL94V-0 klassifiziert	
Standard packaging taped and reeled Standard Lieferform gegurtet auf Rolle	

Maximum ratings and Characteristics **Grenz- und Kennwerte**

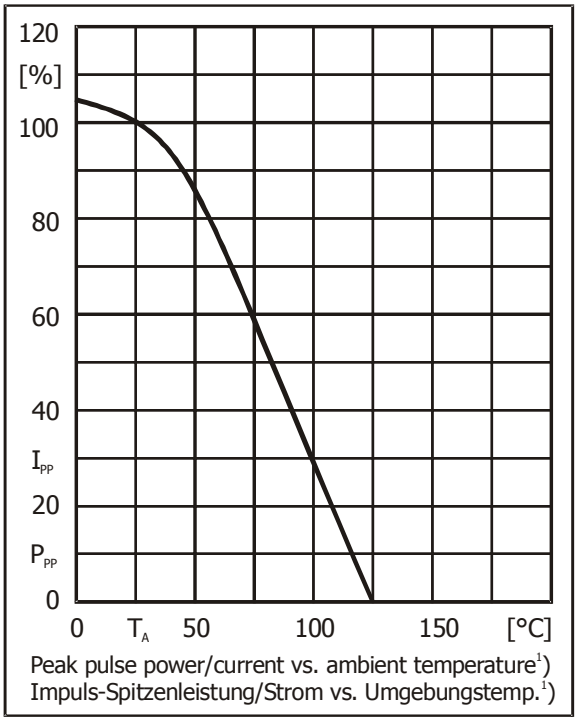
		ESD36CA-Q	
Peak pulse power dissipation (8/20 µs waveform) Impuls-Verlustleistung (Strom-Impuls 8/20 µs)	T_A = 25°C	P_{PPM}	300 W [1]
ESD immunity (HBM, air discharge, IEC 61000-4-2) ESD-Festigkeit (HBM, Luftentladung, IEC 61000-4-2)		V_{PP}	30 kV
Max. junction capacitance – Max. Sperrschichtkapazität		C_T	60 pF
Junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	-55...+150°C -55...+150°C
Marking – Stempelung			ESD36CA = 36C

Type Typ	Stand-off voltage Sperrspannung	Max. rev. current Max. Sperrstrom at / bei V_{WM}	Breakdown voltage Abbruch-Spannung at / bei I_T = 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]
ESD36CA-Q	36	1	40	60	1	75	5

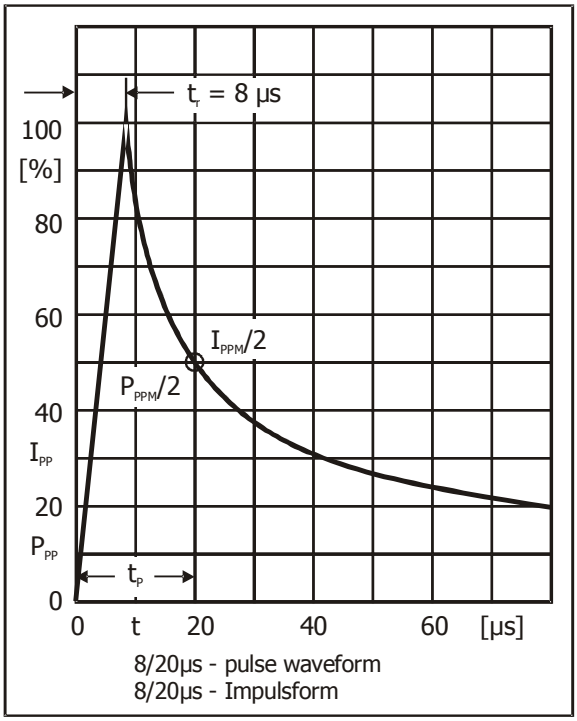


1 Non-repetitive pulse see curve I_{PP} = f (t) / P_{PP} = f (t)
Höchstzulässiger Spitzenwert eines einmaligen Impulses, siehe Kurve I_{PP} = f (t) / P_{PP} = f (t)

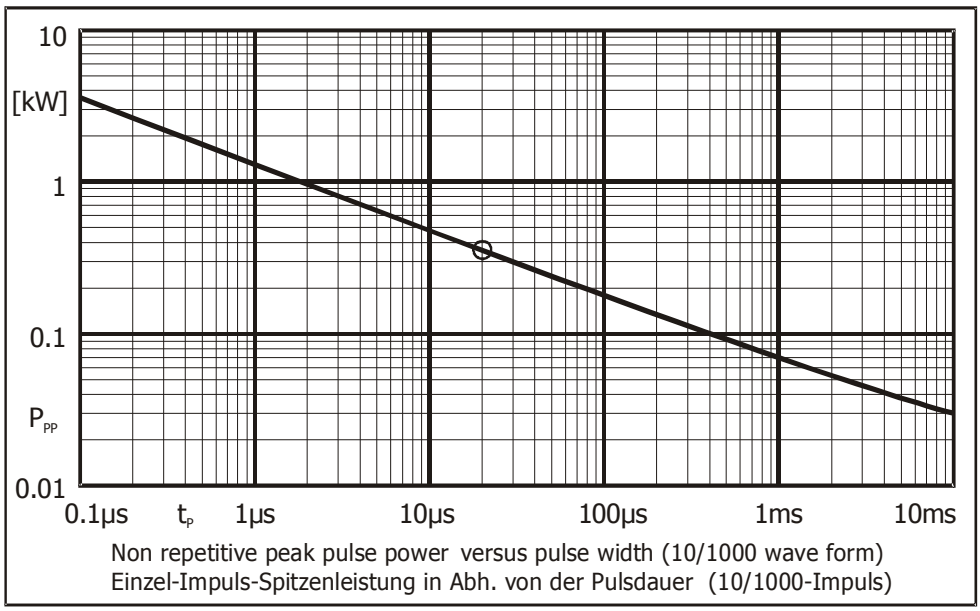
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Peak pulse power/current vs. ambient temperature[1])
Impuls-Spitzenleistung/Strom vs. Umgebungstemp.[1])



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)

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