

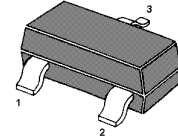
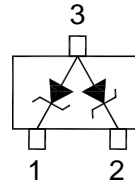
# ESD...CA Series

## Transient Voltage Suppressors

for ESD Protection

### Features

- Low clamping voltage
- Low leakage



1. Cathode 2. Cathode 3. Anode  
SOT-23 Plastic Package

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

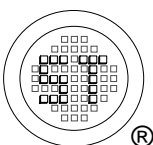
Parameter	Symbol	Value	Unit
Peak Pulse Power ( $t_p = 8/20 \mu\text{s}$ )	$P_{pk}$	300	W
Operating Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25^\circ\text{C}$

Type	Marking Code	Reverse Stand-off Voltage	Reverse Current	Breakdown Voltage		Clamping Voltage <sup>1)</sup>				Peak Pulse Current	Capacitance <sup>2)</sup>
		$V_{RWM}$	$I_R$ at $V_{RWM}$	$V_{BR}$	at $I_T$	$V_C$	at $I_{PP}$	$V_C$	at $I_{PP}$	$I_{PP}$	$C_j$
		Max. (V)	Max. ( $\mu\text{A}$ )	Min. (V)	(mA)	Max. (V)	(A)	Max. (V)	(A)	Max. (A)	Max. (pF)
ESD3V3CA	03C	3.3	125	4.5	1	7	1	9	5	18	600
ESD4V0CA	04C	4	125	5	1	8.5	1	10.5	5	17	600
ESD5V0CA	05C	5	100	6	1	9.8	1	12.5	5	17	400
ESD8V0CA	08C	8	10	8.5	1	13.4	1	15	5	15	350
ESD12CA	12C	12	1	13.3	1	19	1	28	5	12	150
ESD15CA	15C	15	1	16.7	1	24	1	35	5	10	100
ESD24CA	24C	24	1	26.7	1	43	1	60	5	5	63
ESD36CA	36C	36	1	40	1	60	1	75	5	2	60

<sup>1)</sup>  $t_p = 8/20 \mu\text{s}$

<sup>2)</sup> Measured at 1 MHz and applied reverse voltage of 0 V



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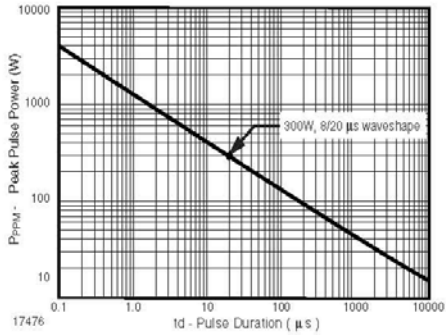


Figure 1. Non -Repetitive Peak Pulse Power vs. Pulse Time

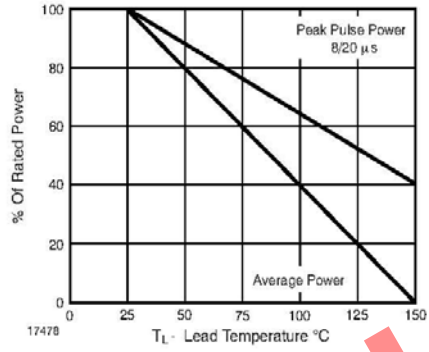


Figure 3. Power Derating

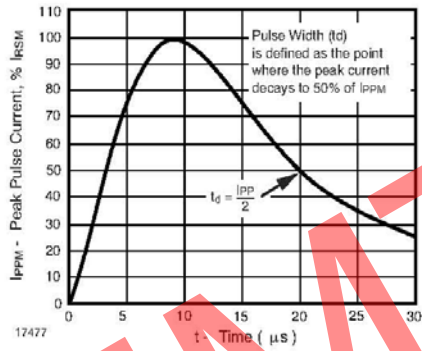
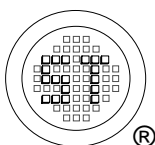


Figure 2. Pulse Waveform



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