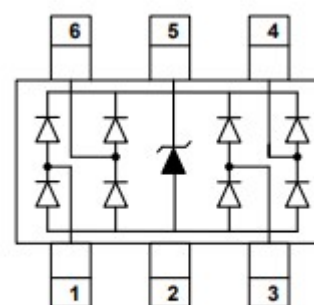




Transient Voltage Suppressors

Features

- 100 Watts Peak Pulse Power per Line ($t_p = 8/20\mu s$)
- Low Clamping Voltage
- Working Voltage: 5V
- Low Leakage Current



Circuit Diagram

Absolute Maximum Ratings ($T_a = 25^\circ C$)

Parameter	Symbol	Value	Unit
Peak Pulse Current ($t_p = 8/20 \mu s$)	I_{PP}	5	A
ESD discharge (IEC61000-4-2) Air Contact	ESD	± 20 ± 15	KV
Peak Pulse Power ($t_p = 8/20 \mu s$)	P_{PP}	100	W
Operation Temperature Range	T_j	- 55 to + 150	$^\circ C$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ C$

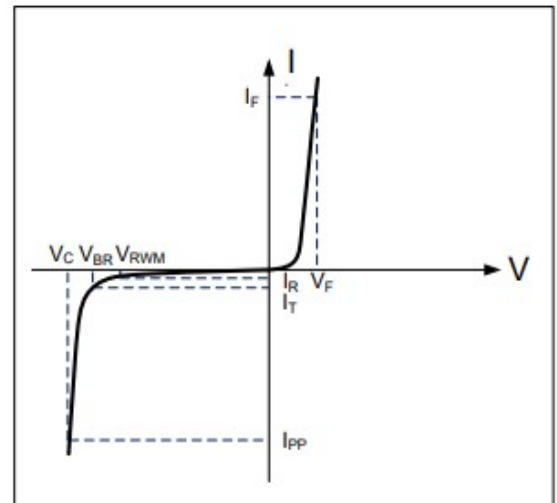
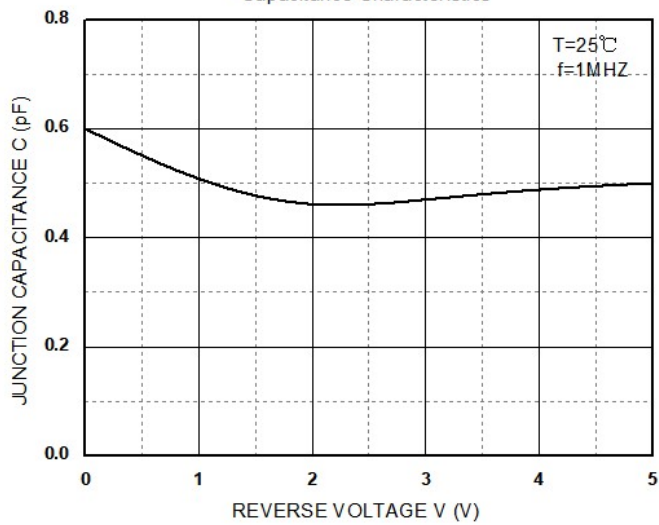
Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V_{RWM}			5	V	
Breakdown Voltage	V_{BR}	6.5	7.5	9.0	V	$I_T = 1mA$
Leakage Current	I_{Leak}			100	nA	$V_{RWM} = 5V$
Clamping Voltage (I/O-GND)	V_C			10.0	V	$I_{PP} = 1A, t_p = 8/20\mu s$
Clamping Voltage (I/O-GND)	V_C			13.0	V	$I_{PP} = 5A, t_p = 8/20\mu s$
Clamping Voltage (Vcc-GND)	V_C			13.0	V	$I_{PP} = 8A, t_p = 8/20\mu s$
Junction Capacitance (I/O to GND)	C_J		0.6	1.0	pF	$V_R = 0V, f = 1MHz,$
Junction Capacitance (I/O to I/O)	C_J		0.3	0.5	pF	$V_R = 0V, f = 1MHz,$

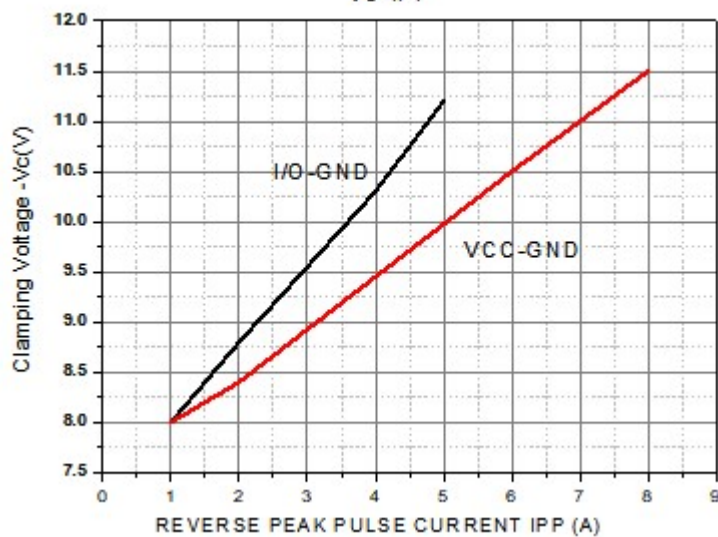


Transient Voltage Suppressors

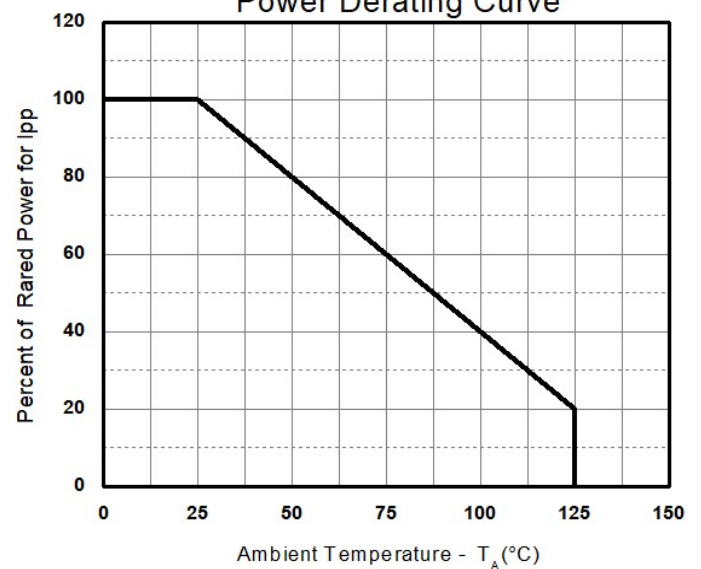
Capacitance Characteristics



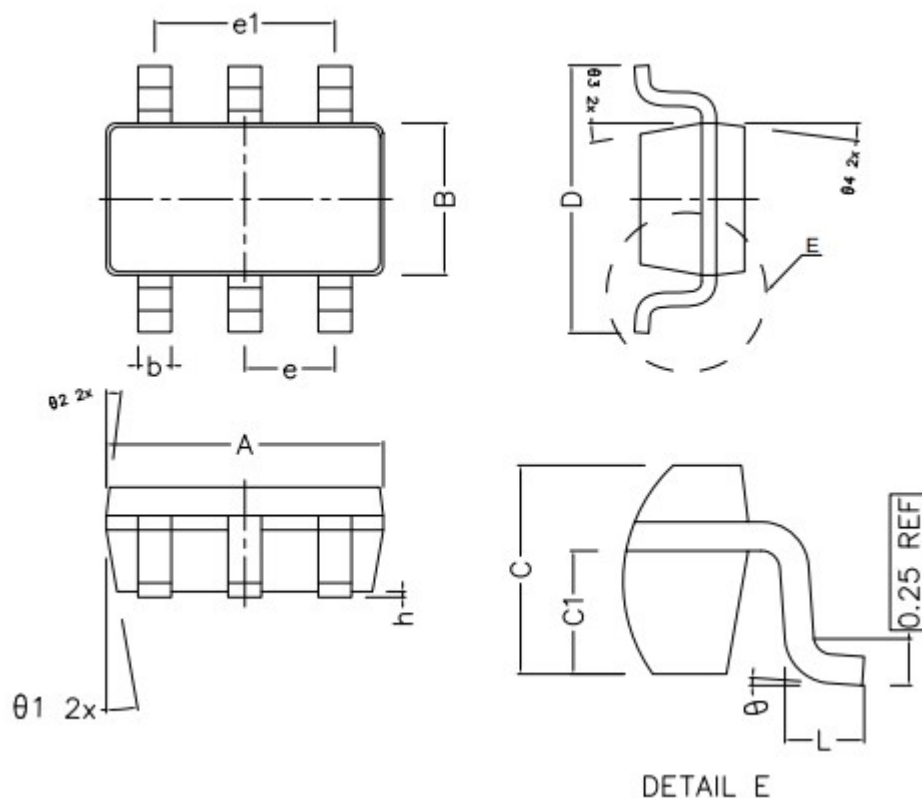
VC-IPP



Power Derating Curve



Transient Voltage Suppressors



COMMON DIMENSIONS (UNITS OF MEASURE IS mm)			
	MIN	NORMAL	MAX
A	2.820	2.920	3.020
B	1.500	1.600	1.700
C	1.050	1.100	1.150
C1	0.600	0.650	0.700
D	2.650	2.800	2.950
L	0.300	0.450	0.600
b	0.280	0.350	0.420
h	0.020	0.050	0.100
e	0.950TYPE		
e1	1.900TYPE		
θ ₁	10° TYPE		
θ ₂	7° TYPE		
θ ₃	10° TYPE		
θ ₄	7° TYPE		
θ	0° ~ 8°		