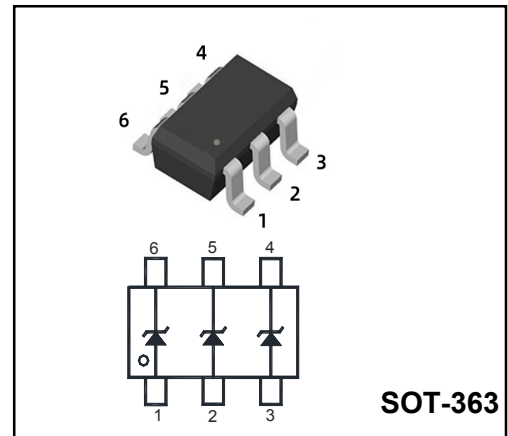


Transient Voltage Suppressors
for ESD Protection

Features

- Excellent clamping capability
- Low leakage
- Fast response time



Absolute Maximum Ratings (Ta=25°C)

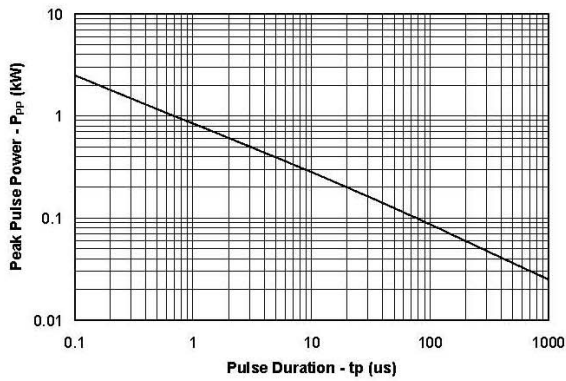
Parameter	Symbol	Value	Unit
Reverse Stand-Off Voltage	V_R	5	V
Peak Pulse Current (tp = 8/20 μs)	I_{PP}	16	A
IEC61000-4-2 (ESD) Air Contact	V_{PP}	± 20 ± 15	KV
Peak Pulse Power (tp = 8/20 μs)	P_{PK}	200	W
Operation Temperature Range	T_j	- 55 to + 125	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Electrical Characteristics(TA = 25 °C unless otherwise specified)

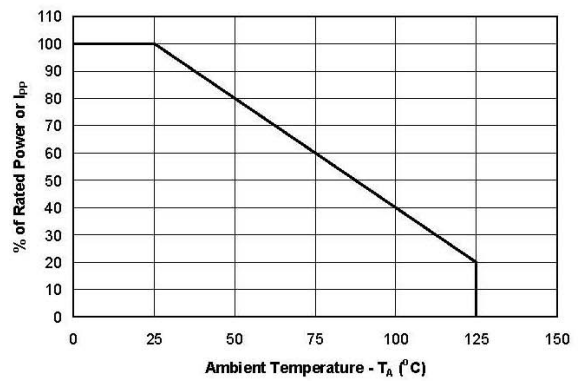
Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 1$ mA	$V_{(BR)R}$	6	-	V
Forward Voltage at $I_F = 10$ mA	V_F	-	0.9	V
Reverse Current at $V_R = 5$ V	I_R	-	1	μA
Clamping Voltage at $I_{PP} = 5$ A, tp = 8/20 μs at $I_{PP} = 16$ A, tp = 8/20 μs	V_C	- -	9.8 12.5	V
Junction Capacitance at $V_R = 0$ V, f = 1 MHz	C_j	-	160	pF

Typical Characteristics

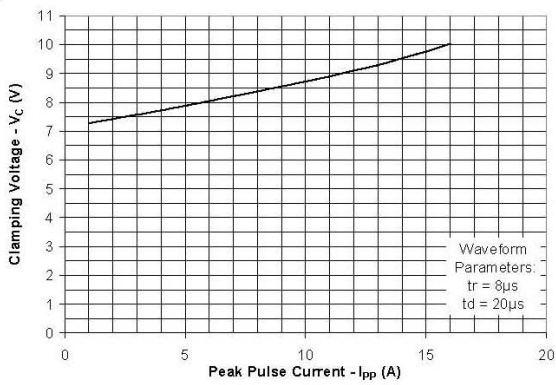
Non-Repetitive Peak Pulse Power vs. Pulse Time



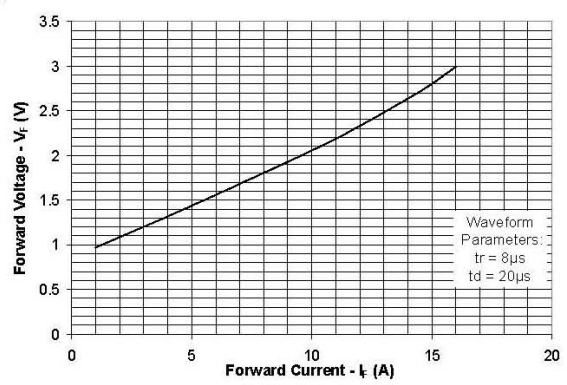
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current



Forward Voltage vs. Forward Current



Ordering information

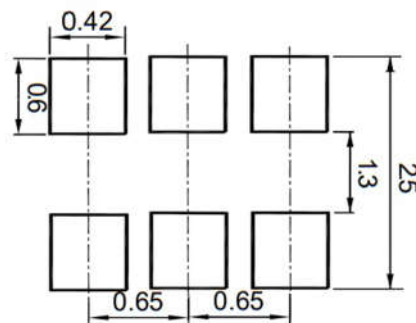
Package	Packing Description	Packing Quantity
SOT-363	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOT-363

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
A1	-	0.1	-	3.94
bp	0.20	0.30	7.87	11.81
c	0.10	0.25	3.94	9.84
D	1.8	2.2	70.87	86.61
E	1.15	1.35	45.28	53.15
e	1.3		51.18	
e1	0.65		25.6	
HE	2.0	2.2	78.74	86.6
Lp	0.15	0.45	5.90	17.71
Q	0.15	0.25	5.90	9.84
v	0.2		7.78	
w	0.2		7.78	
y	0.1		3.94	

The recommended mounting pad size



Disclaimer

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