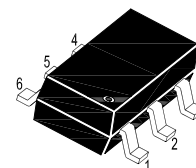
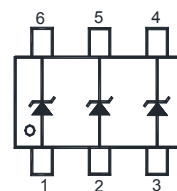


■ Transient Voltage Suppressors

for ESD Protection

■ Features

- Excellent clamping capability
- Low leakage
- Fast response time



■ Simplified outline(SOT-363)

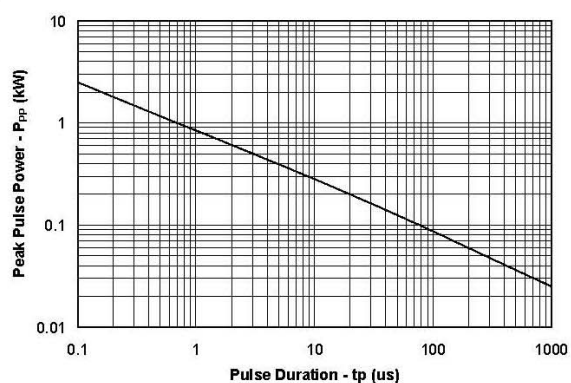
■ Absolute Maximum Ratings ($T_a = 25\text{ }^{\circ}\text{C}$)

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

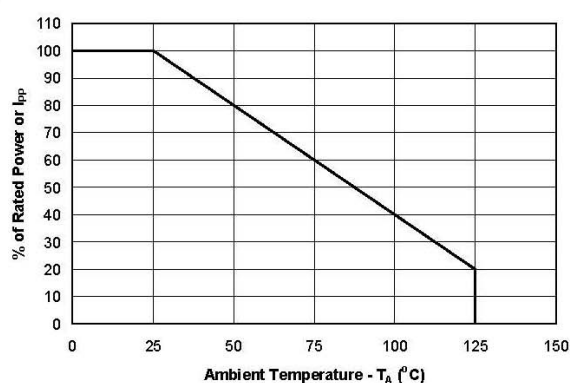
■ Characteristics at $T_a = 25\text{ }^{\circ}\text{C}$

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

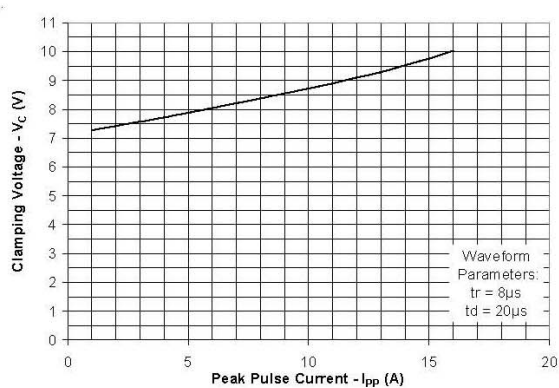
Non-Repetitive Peak Pulse Power vs. Pulse Time



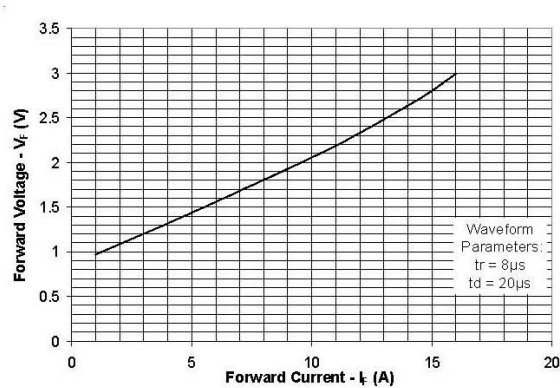
Power Derating Curve



Clamping Voltage vs. Peak Pulse Current

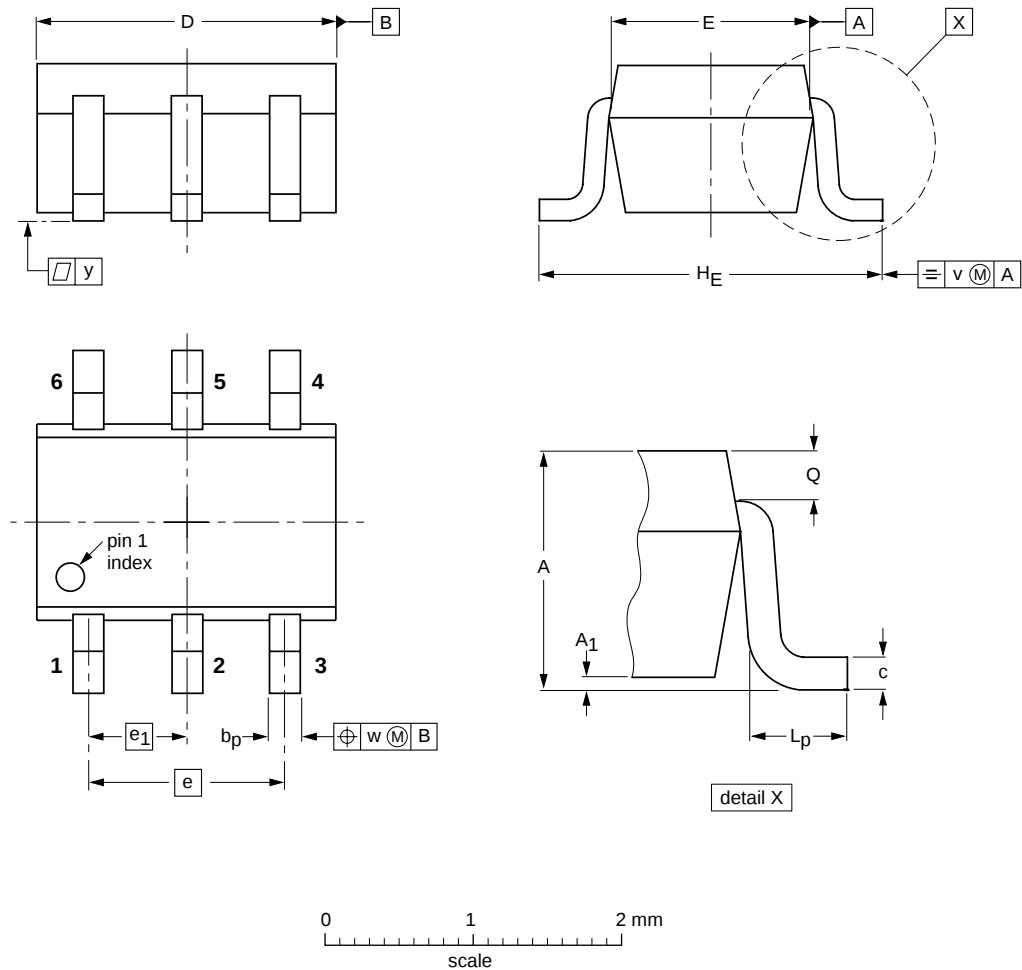


Forward Voltage vs. Forward Current



Package Outline

SOT-363



DIMENSIONS (mm are the original dimensions)

UNIT	A	A ₁ max	b _p	c	D	E	e	e ₁	H _E	L _p	Q	v	w	y
mm	1.1 0.8	0.1	0.30 0.20	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.25 0.15	0.2	0.2	0.1

Summary of Packing Options

Package	Package Description	Packing Quantity	Industry Standard
SOT-363	Tape/Reel, 7" reel	3000	EIA-481-1