

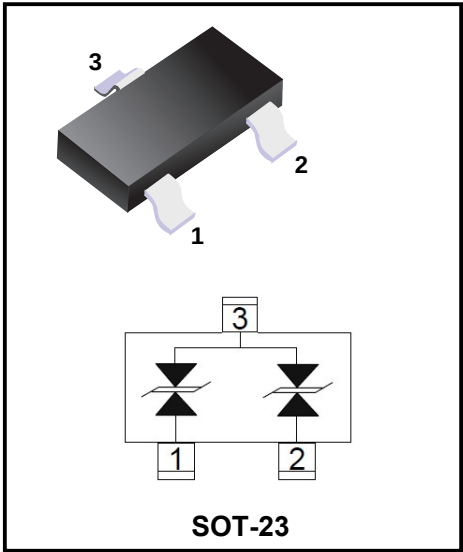
STANDARD CAPACITANCE TVS ARRAY

Features

- ◆ESD protection > 40kV
- ◆500Watts Peak Pulse Power per (tp=8/20us)
- ◆Working voltage: 24V
- ◆Low clamping voltage
- ◆Unidirectional & bidirectional configurations
- ◆IEC COMPATIBILITY(EN61000-4)
 - IEC61000-4-2(ESD) ±15kV(air), ±8kV(contact)
 - IEC61000-4-4(EFT) 40A(5/50ns)
 - IEC61000-4-5(Surge):24a,8.20us-level 2(Line-Ground)& Level 3(Line-Line)

Mechanical Data

- ◆SOT-23 Package
- ◆Flammability Rating: UL 94V-0
- ◆High temperature soldering guaranteed: 260℃/10s



Marking Code	
SMC24	C24

ABSOLUTE MACIMUM RATING

Parameters	Symbol	Value	Unit
Peak Pulse Power (8/20us)	P _{PP}	500	W
Operati ng temperature	T _{OPT}	-55-+150	℃
Storage temperature range	T _{STG}	-55-+150	℃

Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified

PART NUMBER (Note 1)	DEVICE MARKING	VRWM (V) (max.)	VB (V) (min.)	IT (mA)	Vc@1A (V) (max.)	Vc (V) (max.) (@A)	IR (uA) (max.)	CT (pF) (max.)
SM24C	C24	24	26.0	1	43	49 12	1	63

ELECTRICAL CHARACTERISTICS CURVE

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

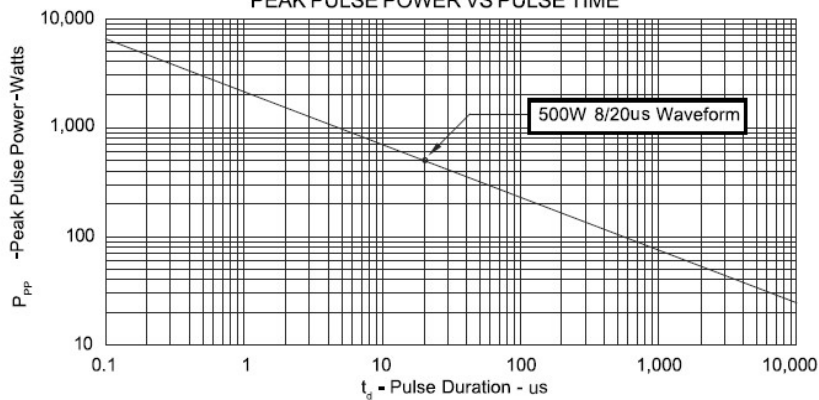


FIGURE 2
PULSE WAVE FORM

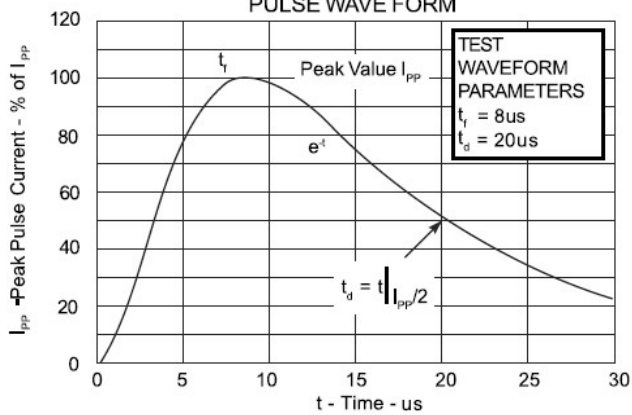
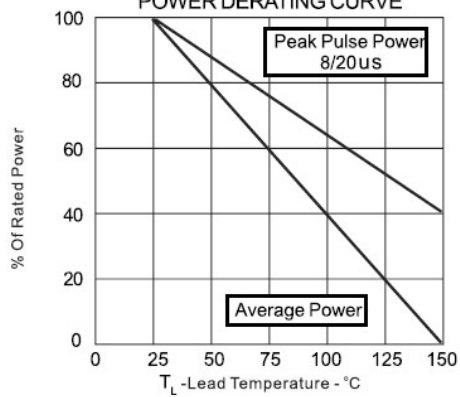


FIGURE 3
POWER DERATING CURVE



Ordering information

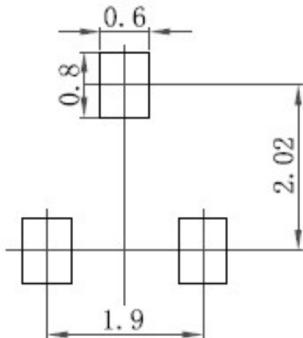
Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel, 7" reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118
E	1.2	1.4	47	55
E	1.9		75	
E1	0.95		37	
HE	2.1	2.55	83	100
Lp	0.15	0.45	5.9	18
Q	0.45	0.55	18	22
v	0.2		7.9	
W	0.1		4	

The recommended mounting pad size



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