



**N052AT23 thru
 N362AT23**

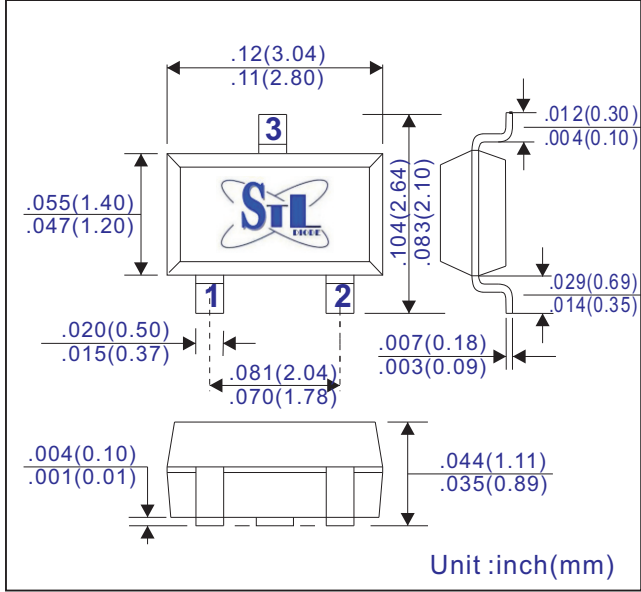
**Dual SMD Transient Voltage
 Suppressor - 5.3V to 25V**



FEATURES & MECHANICAL DATA

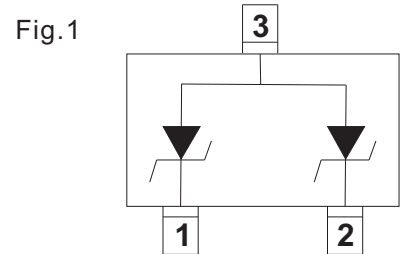
- 250mW peak pulse power (tp=8/20µS)
- Transient protection for data, signal and Vcc
- Designed to protect components which are connected to multi-line data and transmission lines from overvoltages caused by electrostatic discharge (ESD), electrical fast transients (FET), and induced lightning.
- Transient protection for data lines to IEC 61000-4-2 (ESD) 16KV(air),9KV(contact) IEC 61000-4-4 (EFT) 40A (tp=5/50nS) MIL STD 883C-Method 3015-6-3 25KV
- Protects two uni-directional lines or one bi-directional line
- Low leakage current
- Solid state silicon avalanche technology
- Applications
 - RS-232, Rs423 data lines
 - Cellular phones and terminals
 - Audio/Video inputs
 - Portable electronics (Digital cameras, Mp3 player, etc.)
 - Networks

SOT-23



MECHANICAL DATA

- Case: Molded plastic SOT-23
- Epoxy: UL94-V0 rated flame retardant
- Terminals: Solderable per MIL-STD-750 Method 2026
- Schematic & PIN configuration, see Fig. 1
- Mounting Position: Any
- Weight: 0.008 grams



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

	Symbols	N052 AT23	N122 AT23	N152 AT23	N242 AT23	N362 AT23	Units
Reverse Stand-Off Voltage	VRWM	5	12	15	24	36	Volts
Maximum Breakdown Voltage @ IR=1.0mA	VBR	6	13.3	16.7	26.7	40	Volts
Max Clamping Voltage @IPP	VC	9	17.1	21.6	36.7	54	Volts
Max Peak Pulse Current	IPP	17	12	10	5	4	A
Reverse Leakage Current @VRWM	IR	20	1	1	1	1	µA
Capacitance pin 1-2 @VR=0V, f=1.0MHZ Capacitance pin 1-3 @VR=0V, f=1.0MHZ	CJ	170 200	108 135	68 90	45 54	36 41	pF
Peak Pulse Power. td=8/20µS	PPK	250					W
Operating Junction Temperature Range	TJ	-55 ~ +150					°C
Storage Temperature Range	TSTG	-55 ~ +150					°C



Fig. 2 - 8x20uS Impulse Waveform

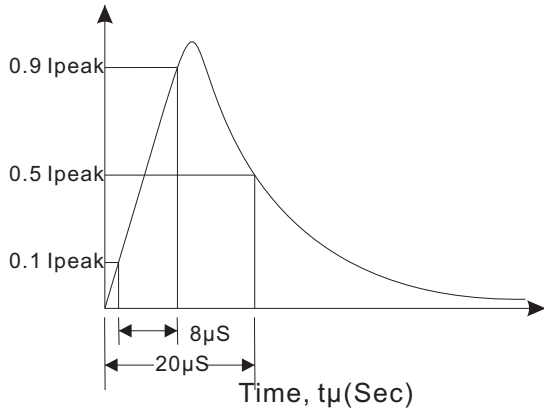


Fig. 3 - Power Derating Curve

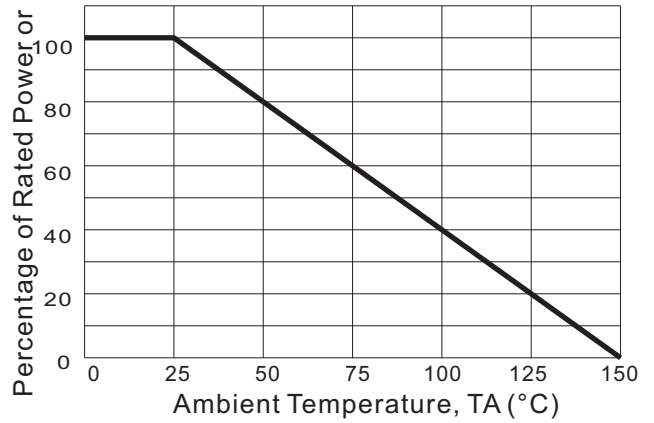


Fig. 4 - IEC 1000-4-2 ESD Waveform & Discharge Parameters

Level	First Peak Current of Discharge (±10%) (A)	Peak Current @30nS (±30%) (A)	Peak Current @60nS (±30%) (A)	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1	7.5	4	2	2	2
2	15	8	4	4	4
3	22.5	12	6	6	8
4	30	16	8	8	15

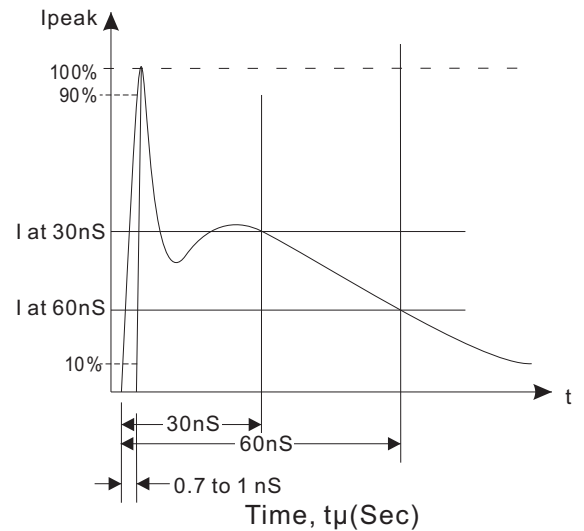


Fig.5 - Non-Repetitive Peak Pulse Power

