

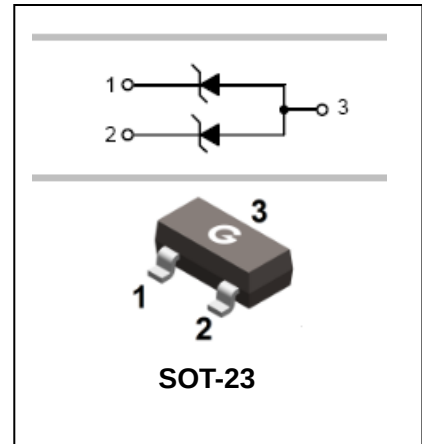
TVS DIODE ARRAY

SM08

FEATURES

- Complies with following standards:
 IEC 61000-4-2(ESD) 30kV (air), 30kV (contact)
 IEC 61000-4-4(EFT) 40A (tp=5/50ns)
 IEC 61000-4-5(Lighting) 18A (tp=8/20us)
- Working Voltage: 8V
- Low clamping voltage

HF



APPLICATIONS

- USB 2.0 power and data line
- Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers
- SIM Ports

ORDERING INFORMATION

Type No.	Marking	Package Code
SM08	M08	SOT-23

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Ratings	Units
P _{PK}	Peak Pulse Power(tp=8/20us)	340	W
V _{ESD}	ESD per IEC 61000-4-2 Air Contact	±30 ±30	KV
T _J	Operating Temperature Range	-55 to +125	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

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ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Reverse Stand-Off Voltage	V_{RWM}				8	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1mA$	8.5	9		V
Reverse Leakage Current	I_R	$V_{RWM}=8V, T=25^\circ C$			1	μA
Clamping Voltage	V_C	$I_{PP}=1A, t_p=8/20\mu s$ $I_{PP}=18A, t_p=8/20\mu s$		15.1	13.4 19	V
Junction Capacitance	C_j	Pin 1 to 3 and Pin 2 to 3 $V_R=0V, f=1MHz$		90		pF

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Fig1. 8/20 μs Pulse Waveform

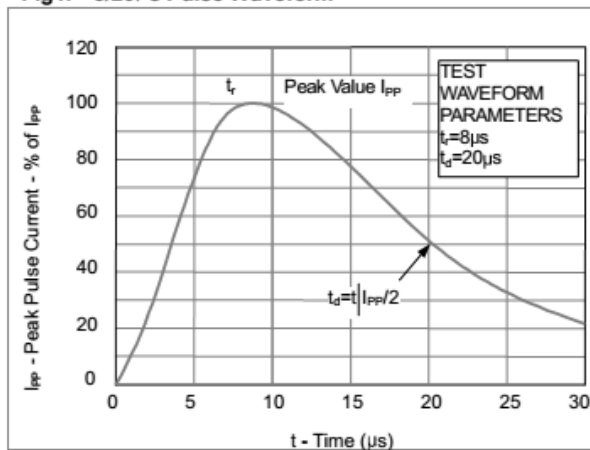


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

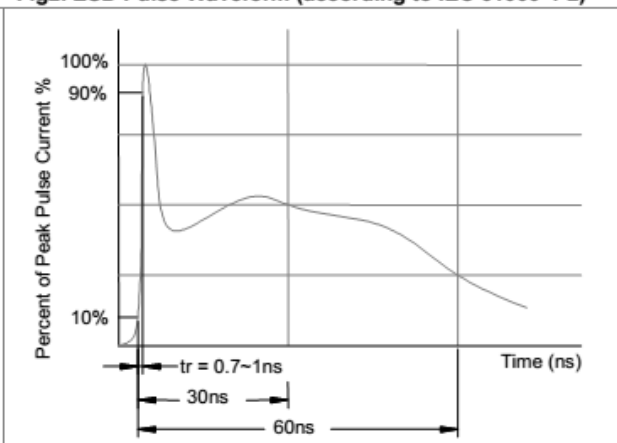
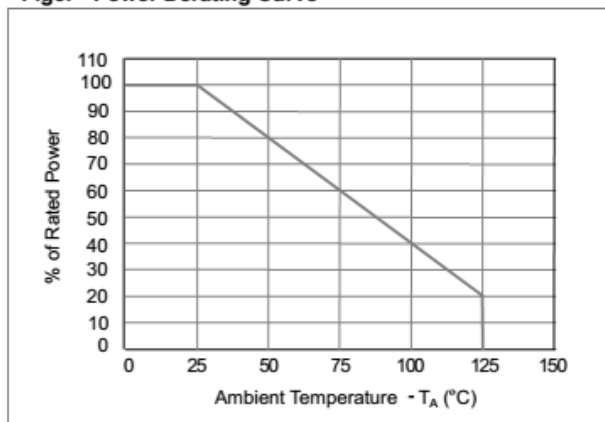


Fig3. Power Derating Curve



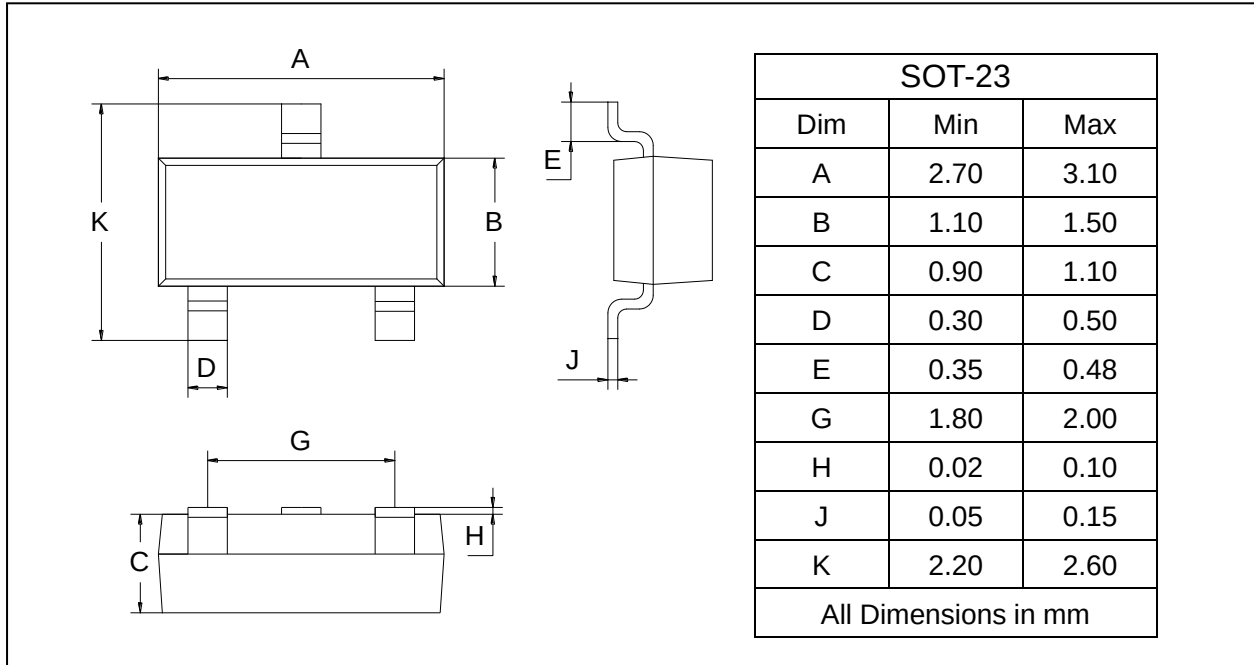
TVS DIODE ARRAY

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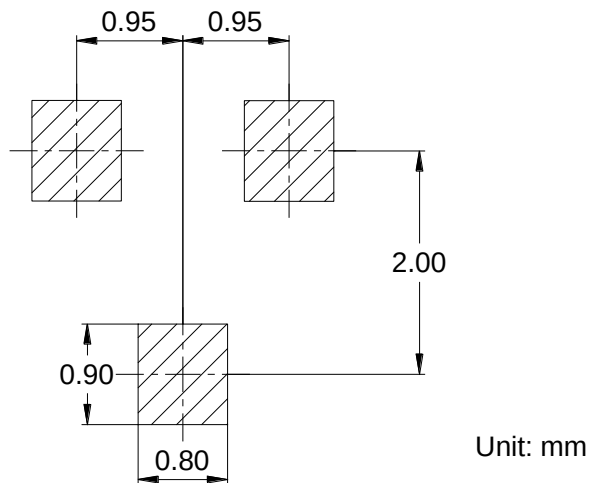
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
SM08	SOT-23	3000 pcs / Tape & Reel