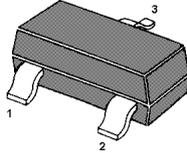
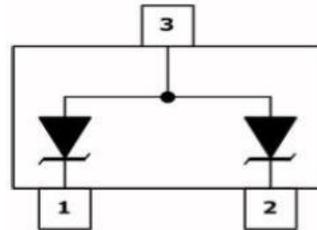


ESD Protection Diode

SOT-23



MARKING : M05



FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- 2 Unidirectional transil functions
- Low leakage current:IR max< 20 μA at VRM
- 300W peak pulse power(8/20μs)
- Transient protection for data lines as per IEC61000-4-2(ESD) ±30KV(air) ±30KV(contact) IEC61000-4-5(Lightning) see IPPM below

APPLICATIONS

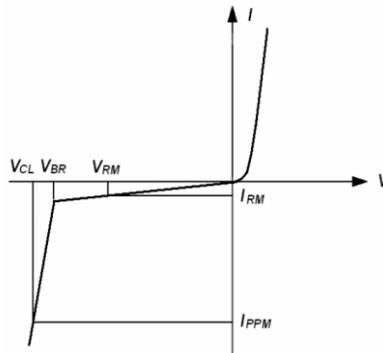
- Computers
- Printers
- Communication systems

ABSOLUTE RATINGS(Ta = 25° C)

Parameter	Symbol	Limits	Unit
Peak Pulse Power (tp = 8/20μs)	PPP	300	W
Lead Solder Temperature – Maximum (10 Second Duration)	TL	260	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C
Operating Temperature Range	Top	-40 ~ +125	°C
Maximum junction temperature	Tj	150	°C
Electrostatic discharge	ESD		kV
IEC61000-4-2 air discharge		± 30	
IEC61000-4-2 contact discharge		± 30	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Parameter
VRM	Stand-off voltage
VBR	Breakdown voltage
VCL	Clamping voltage
IRM	Leakage current
IPPM	Peak pulse current

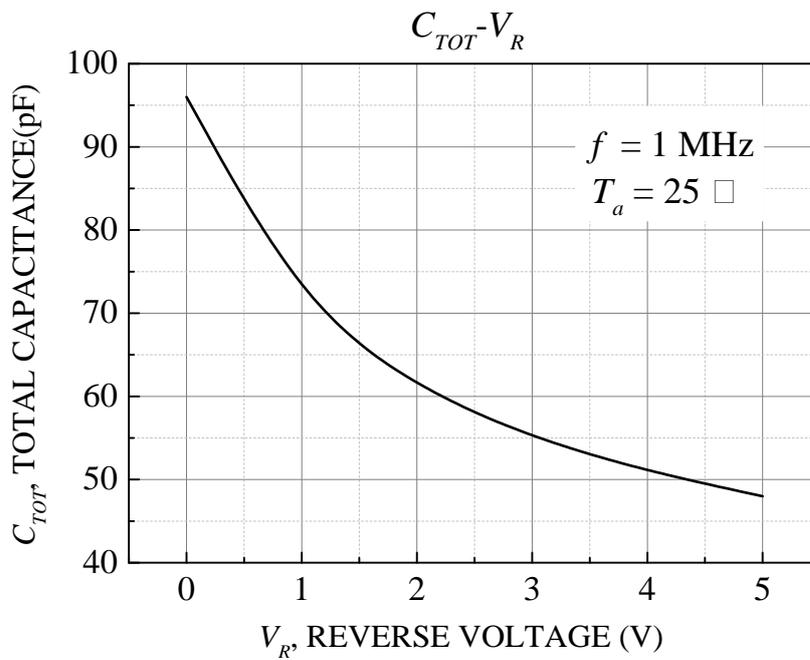
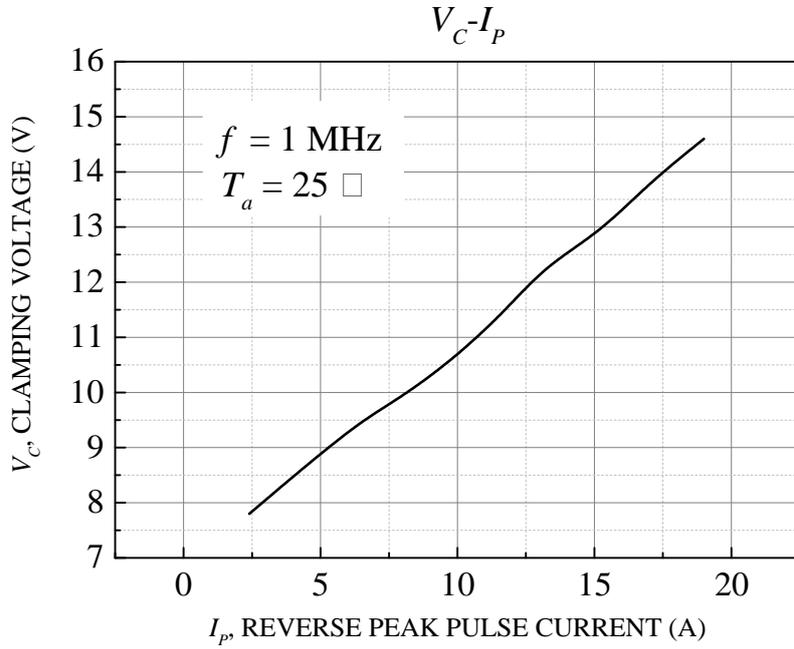


ELECTRICAL CHARACTERISTICS (Ta=25°C)

DEVICE	VRWM (V)	IR (μA) @VRWM	VBR (V) @IT (Note 1)	IT (mA)	VC (V) @IPP=1A	VC (V) @IPP=5A	IPP(A) @tp=8/20μs	C (pF) f=1MHz
	Max.	Max.	Min.		Max.	Max.	Max.	Max.
ESD5V0AP	5	5	6	1	9.8	12.5	17	220

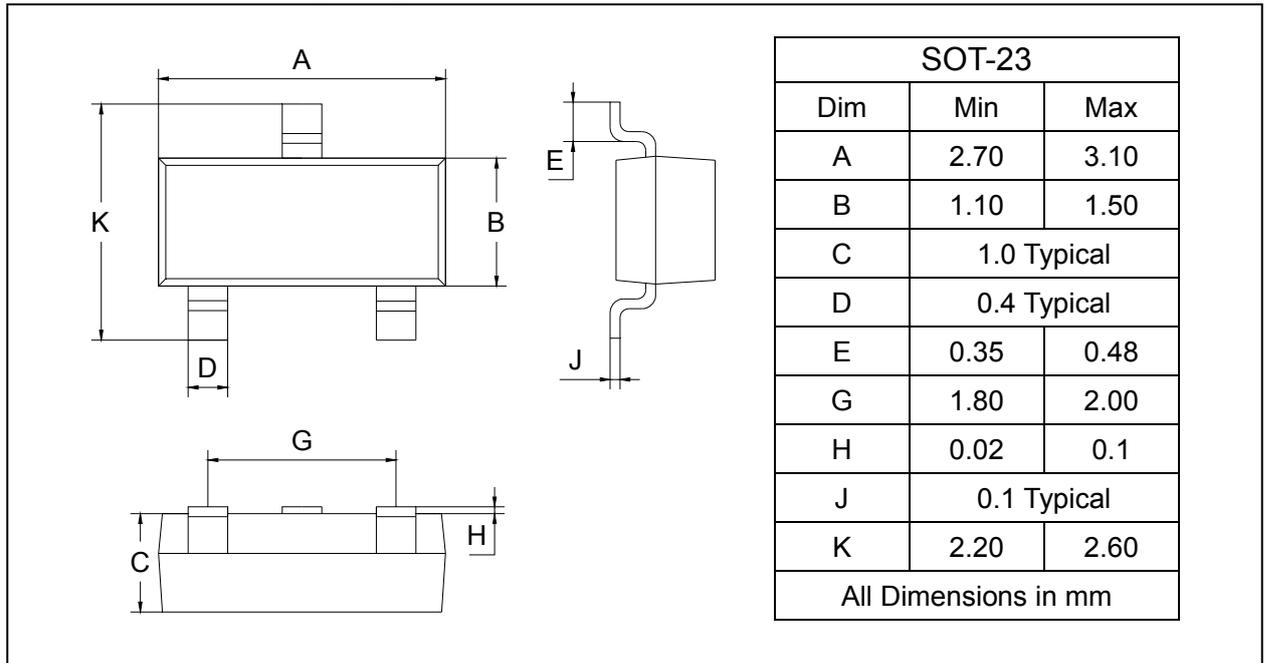
1. 8/20 waveform used.

ELECTRICAL CHARACTERISTICS CURVE

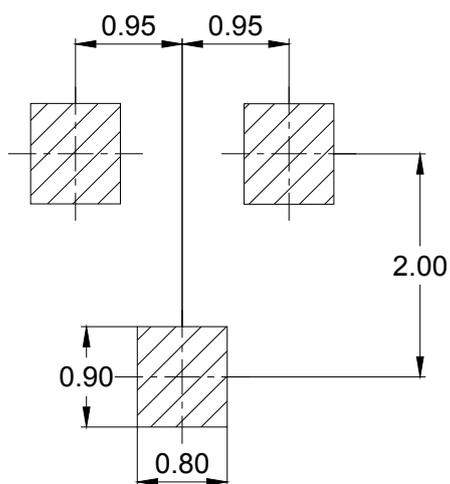


Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm