

SOT-723 Plastic-Encapsulate ESD Protection Diodes

Features

- Low leakage current
- Low clamping voltage
- IEC 61000-4-2 (ESD Air): ±18kV
- IEC 61000-4-2 (ESD Contact): ±15kV
- IEC 61000-4-5 (Lightning 8/20μs): 3A

Applications

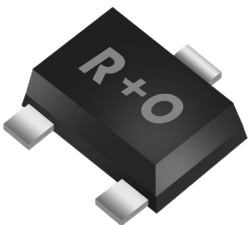
- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation, Digital Cameras
- Peripherals, Audio Players, Industrial Equipment

Function Diagram



Reverse Working Voltage
5.5V Max.
Low capacitance
0.4pF(Typ.)

SOT-723

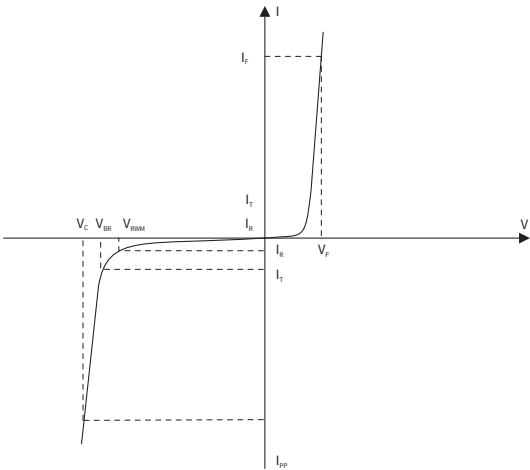


Maximum Ratings (Ta=25°C Unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
VESD	Electrostatic Discharge Voltage	ESD per IEC 61000-4-2(Air)	±18	KV
		ESD per IEC 61000-4-2(Contact)	±15	KV
P _{PP}	Peak Pulse Power	tp = 8/20 μs	50	W
I _{PP}	Rated Peak Pulse Current	tp = 8/20 μs	3	A
T _J	Operating JunctionTemperature Range	—	-55 to +150	°C
T _{STG}	Operating JunctionTemperature Range	—	-55 to +150	°C

Electrical Parameter

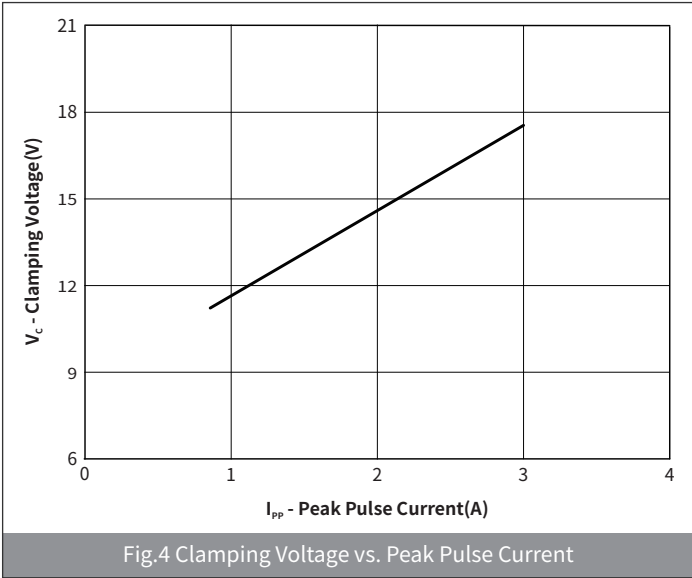
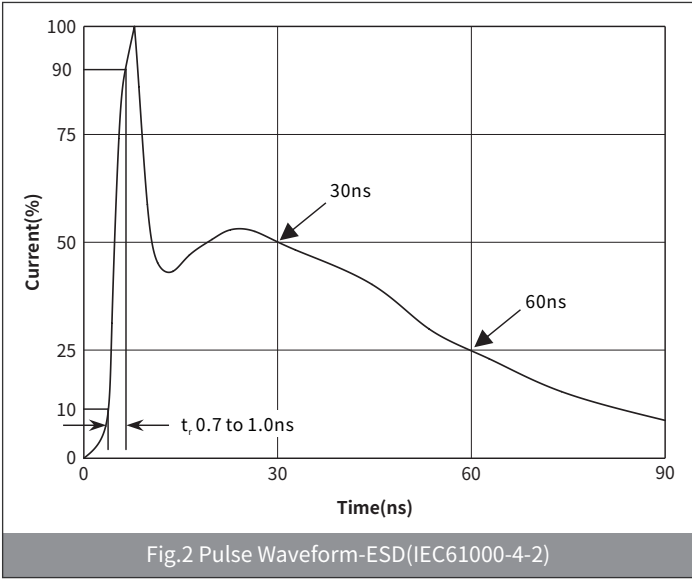
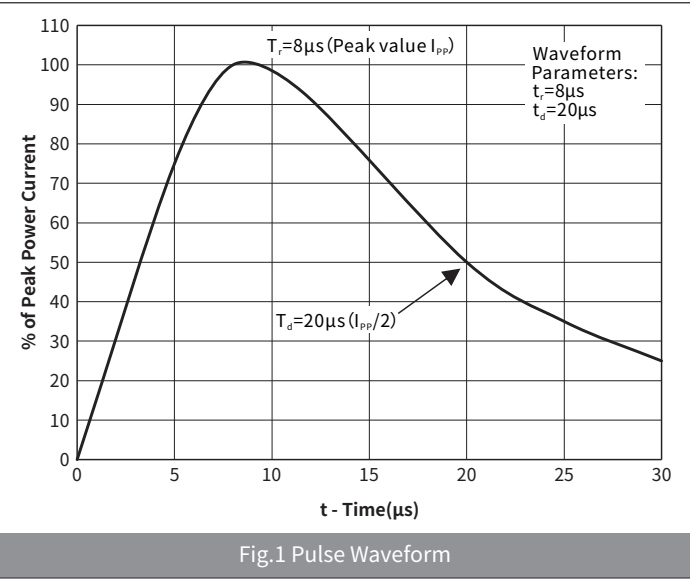
SYMBOL	PARAMETER
V _C	Clamping Voltage @ I _{PP}
V _{BR}	Breakdown Voltage @ I _T
I _{PP}	Peak Pulse Current
I _T	Test Current
I _R	Reverse Leakage Current @ VRWM
V _{RWM}	Peak Reverse Working Voltage
P _{PP}	Peak Pulse Power Dissipation
C _J	Junction Capacitance @ V _R =0V,f=1MHz
I _F	Forward Current
V _F	Forward Voltage @I _F



● Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	CONDITION	Min	Typ	Max	UNIT
Peak Reverse Working Voltage	V_{RWM}	$T_a=25^{\circ}\text{C}$	—	—	5.5	V
Breakdown Voltage	V_{BR}	$I_T=1\text{mA}, T_a=25^{\circ}\text{C}$	7.0	—	—	V
Reverse Leakage Current	I_R	$V_{RWM}=2.5\text{V}, T_a=25^{\circ}\text{C}$	—	—	0.1	μA
Clamping Voltage	V_C	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$	—	—	13	V
Clamping Voltage	V_C	$I_{PP}=3\text{A}, t_p=8/20\mu\text{s}$	—	—	18	V
Junction Capacitance	C_J	$V_{RWM}=0\text{V}, f=1\text{MHz}$	—	0.4	—	pF

● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



H5V5L23UA

Uni-directional 5.5V Low Capacitance ESD

● Ordering Information

PREFERED P/N	PACKAGE	SIZE(mm)	DELIVERY MODE	MPQ(PCS)
H5V5L23UA	SOT-723	0.46×1.2×1.2	7"	8000

● Recommended Soldering Conditions



● Package Outline Dimensions (SOT-723)

