

ESD523UC5VB

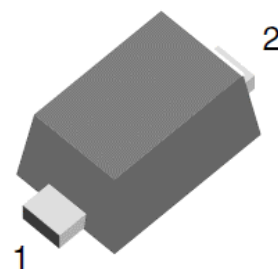
ESD523UC5VB ESD Protection Diode

General description

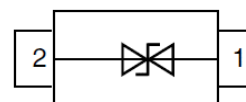
Silicon Protection Diode in a SOD-523 Package.

FEATURES

- 40 Watt peak pulse power (t/p=8/20)
- SOD-523 Package
- Bidirectional configurations
- Low Leakage Current
- Low clamping voltage
- Medium capacitance (Cj=0.5 pF typ.)
- Protection one data line / Power Line to :
- IEC 61000-4-2 8Kv Contact /15Kv air.
- IEC 61000-4-4 EFT 40A(5/50nS)
- IEC 61000-4-5 Lightning 3A(8/20uS)
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish



SOD-523 Package



Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
P_{pp}	Peak pulse power	40	W
I_{pp}	Peak pulse Current (tp=8/20uS)	3.5	A
T_{stg}	Storage Temperature Range	-55 to +150	°C
T_J	Junction Temperature	-55 to +125	°C
ESD	IEC61000-4-2 Air Discharge Contact Discharge	15 8	KV
EFT	IEC61000-4-4	40	A
Lightning	IEC61000-4-5	3	A

Device Marking:

Device Type	Marking	Shipping
ESD523UC5VB	5S or 5B	5,000/Reel

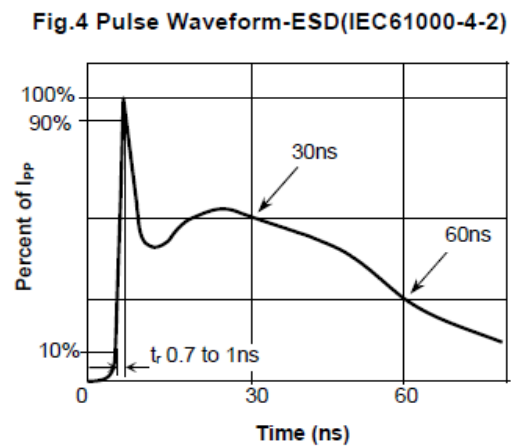
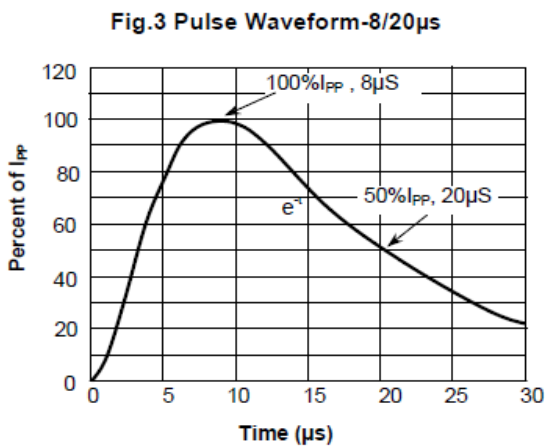
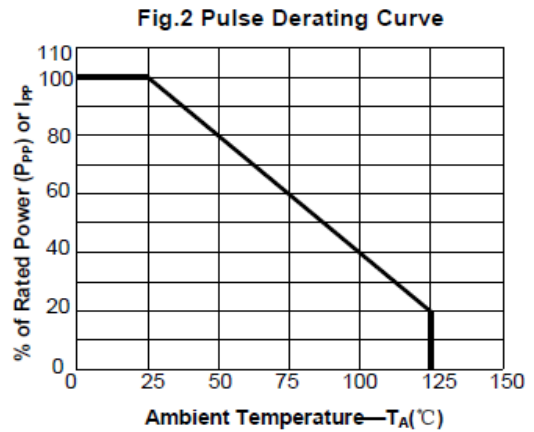
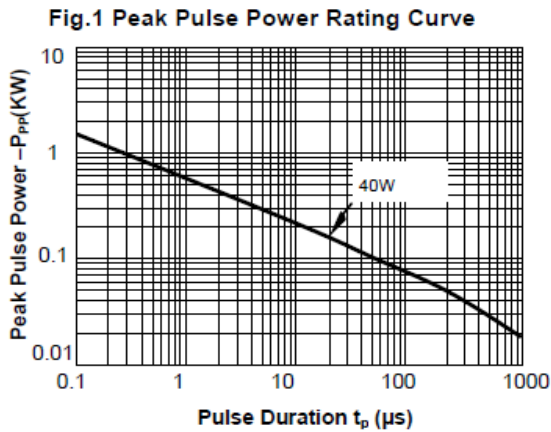
Electrical Characteristics (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
V_{BR}	Reverse Breakdown Voltage	I _T =1mA	6	--	--	Volts
V_{RWM}	Reverse Stand-off Voltage		--	--	5	Volts
I_R	Reverse Leakage Current	V _R =5V	--	--	1	uA
C_j	Junction Capacitance	V _R =0V, f= 1MHz	--	0.5	0.9	pF

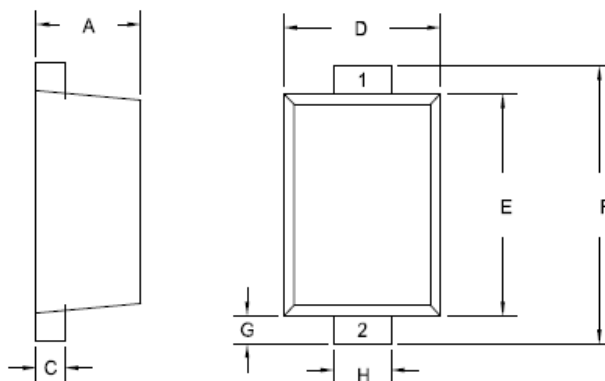


ESD523UC5VB

Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



SOD-523 Package Outline



Dim	millimeters	
	min	max
A	0.50	0.70
C	0.07	0.20
D	0.70	0.90
E	1.10	1.30
F	1.50	1.70
G	0.15	0.25
H	0.25	0.35

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