

L26ESD5V0A2

UNIDIRECTIONAL ESD PROTECTION DIODE	STAND-OFF VOLTAGE - 5.0 Volts POWER DISSIPATION - 260 WATTS				
 GENERAL DESCRIPTION Unidirectional ESD protection in a SOD 523 plastic designed to protect one transmission or data line from the damage caused by 		SOD523			
ESD and other transients.				SOD52	3
			DIM.	MIN.	MAX.
FEATURES			A B	0.51 0.25	0.77 0.35
• Max peak pulse power : Ppp = $260W$ at th = $8/20$ us	F F		С	0.08	0.15
• Low clamping voltage : VCL = $17V$ at lpp = $15A$			D	1.10	1.30
• ESD protection>25KV per MIL-STD-883C, Method 3015-6: Class 3	D		E	0.75	0.85
• IEC 61000-4-2 (ESD), >+/-30KV (air); >+/-30KV (contact).	1 <u>+ 1</u>	2	F	1.50	1.70
 IEC 61000-4-5 (surge); lpp = 15A at tp = 8/20 us. Qualified to AEC-Q101 Rev_C 			All Dimer	nsions in r	nillimeter
APPLICATION					
Computers and peripherals			F	PIN ASSIGNM	ENT
Communication system	1 🛃	- 2	1	Cathod	le
Audio and video equipment			2	Anode	Ð
Data lines					
MECHANICAL DATA					
Case Material: "Green" molding compound UL flammability					
classification 94V-0 (No Br.Sb, Cl)					
Terminals: Lead Free Plating (Matte Tin Finish)					
Component in accordance to RoHs 2011/65/EU					
MAXIMUM RATINGS (Tj= 25°C unless otherwise noticed)					
Rating		Symbol	Value	•	Unit
Peak pulse Power (8/20us Waveform)		Рррм	260		W
Peak Pulse Current (8/20us Waveform)		IPP	15.0 A		А

— F

ELECTRICAL CHARACTERISTICS (Tj= 25°C unless otherwise noticed)

Operating Junction Temperature Range

Soldering Temperature, t max = 10s

Storage Temperature Range

Parameter	Symbol	Conditions	MIn	Мах	Unit
Reverse standoff voltage	Vdrm			5	V
Reverse leakage current	IRM	VDRM = 5 V		1	uA
Breakdown voltage	Vbr	IR = 1 mA	6.4	7.2	V
Diode capacitance	CJ	VR = 0 V , f = 1MHz		140	pF
Clamping voltage	VcL	IPP = 1 A (8/20us) IPP = 15 A (8/20us)		9 17	V

ΤJ

Tstg

ΤL

REV. 6, Sep-2016, KSIR01

°C

°C

°C

-55 to + 150

-55 to + 150

260

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120

LITEON



Figure 1. 8/20 us pulse waveform according to IEC 61000-4-5



Figure 3. Power Dissipation versus Pulse Time





100%

90%





Figure 6. Reverse Leakage Current versus TJ

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LITE ON



Marking & Orientation



Packaging Information

DEVICE	Q'TY/REEL	REEL DIA.	Q'TY/BOX	Q'TY/CARTON
	(PCS)	(INCH)	(PCS)	(PCS)
L26ESD5V0A2	3000	7	45000	90K/180K

SOD-523 Soldering Pad Layout



Dim.	Millimeters	Inches
Ζ	2.30	0.090
Х	1.50	0.059
W	0.70	0.027
Y	0.80	0.031
V	0.60	0.023



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