

# Product data sheet

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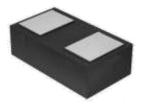


Semiconductor Compiance

#### Features

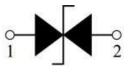
Ultra Low Capacitance: 0.30pF(typ.) Reverse Working Voltage: 5V IEC 61000-4-2 (ESD Air): ±20kV IEC 61000-4-2 (ESD Contact): ±20kV IEC 61000-4-5 (Lightning 8/20µs): 5A

#### **Pin Description**



### Applications

Smart Phone and Tablet PC TV and Set Top Box Wearable Devices PDA **Schematic Diagram** 



## Limiting Values(T<sub>A</sub> = 25 °C, unless otherwise specified)

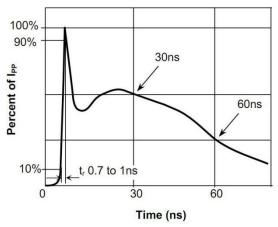
Symbol	Parameter	Conditions		Мах	Unit
	Electrostatic Discharge Voltage	IEC 61000-4-2; Contact Discharge		±20	kV
Vesd		IEC 61000-4-2; Air Discharge	-	±20	kV
P <sub>PP</sub>	Peak Pulse Power	t <sub>P</sub> = 8/20 μs	-	110	W
Іррм	Rated Peak Pulse Current	t <sub>P</sub> = 8/20 µs	-	5.0	А
T <sub>A</sub>	Operating Temperature Range	-	-55	125	°C
T <sub>stg</sub>	Storage Temperature Range	-	-55	150	°C

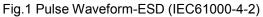


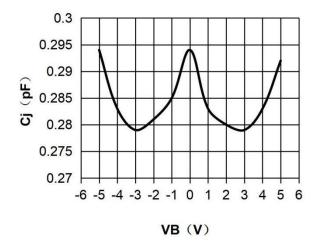
Symbol	Parameter	Conditions	Min	Тур.	Max	Unit
V <sub>RWM</sub>	Reverse Working Voltage	T <sub>A</sub> = 25 °C	-	-	5.0	V
V <sub>BR</sub>	Breakdown Voltage	I <sub>R</sub> = 1mA; T <sub>A</sub> = 25 °C	6.0	8.5	9.5	V
I <sub>R</sub>	Reverse Leakage Current	V <sub>RWM</sub> = 5V; T <sub>A</sub> = 25 °C	-	-	0.1	μA
Vc	Clamping Voltage	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs	-	-	10	V
		I <sub>PP</sub> =5.0A, t <sub>P</sub> =8/20μs	-	-	22	V
CJ	Junction Capacitance	V <sub>R</sub> = 0V, f = 1 MHz	-	0.30	0.40	pF

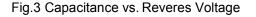
## Electrical Characteristics(T<sub>A</sub> = 25 °C unless otherwise specified)

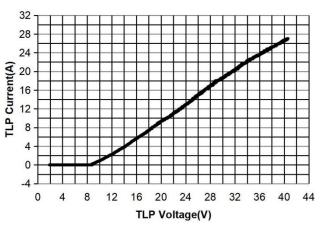
## **Typical Characteristics**

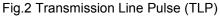












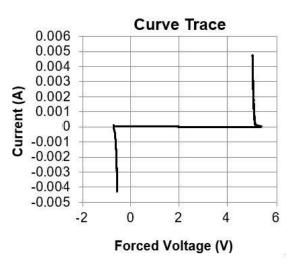


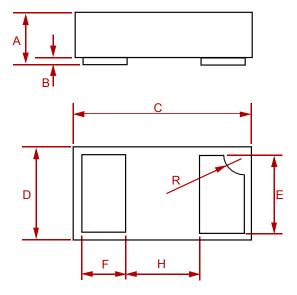
Fig.4 IV Curve



LXES1UTAA1-MS

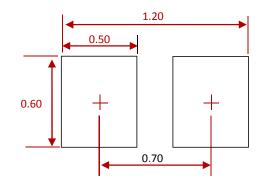
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#### PACKAGE MECHANICAL DATA



Dim	Inches		Millimeters		
	MIN	MAX	MIN	МАХ	
А	0.0125	0.02	0.32	0.52	
В	0.000	0.002	0.00	0.05	
С	0.037	0.043	0.95	1.080	
D	0.022	0.027	0.55	0.680	
E	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
н	0.015Typ.		0.40Тур.		
R	0.001	0.005	0.05	0.15	

## **Suggested Pad Layout**



NOTES:

- 1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

#### **REEL SPECIFICATION**

P/N	PKG	QTY
LXES1UTAA1-MS	DFN-2	10000





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