

# Product data sheet

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Semiconductor C

# Compiance

### Features

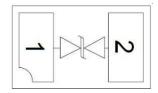
30W (8/20µs) Peak Pulse Power Low Capacitance ESD Protection RoHS Compliant Matte Tin Lead finish (Pb-Free) Protect One High Speed Data Line Meet IEC61000-4-2 Level 4: Contact Discharge > 8kV Air Discharge > 15kV

#### Applications

Communication System Portable Instrumentation Audio and Video Equipment Computers and Peripherals USB 1.1, USB 2.0 Ports

Maximum Ratings (Ta =  $25^{\circ}$ C)





DFN1006

Symbol	Parameter	Value	Unit
Ррк	Peak Pulse Power	30	W
IPP	Peak Pulse Current	2	А
VESD (Contact)	Contact ESD Voltage per IEC61000-4-2	8	kV
VESD (Air)	Air ESD Voltage per IEC61000-4-2	15	kV
TJ	Junction Temperature	-55 to +150	Ĉ
TSTG	Storage Temperature	-55 to +150	Ĉ

# Electrical Characteristics (Ta = 25℃)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
VRWM	Reverse Working Peak Voltage				5	V
VBR	Reverse Breakdown Voltage	IT = 1mA	5.5		9.5	V
IR	Reverse Leakage Current	VRWM = 5V			0.1	μA
VC	Clamping Voltage	IPP = 1A (8/20µs)			12	V
VC	Clamping Voltage	IPP = 2A (8/20µs)			15	V
CJ	Capacitance	VR = 0V, f = 1MHz		3.0	3.5	рF



#### **Electrical Parameter**

	_	
Symbol	Parameter	
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current	
Vc	Clamping Voltage @ IPP	
V <sub>RWM</sub>	Working Peak Reverse Voltage	
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>	
IT	Test Current	
V <sub>BR</sub>	Breakdown Voltage @ I⊤	

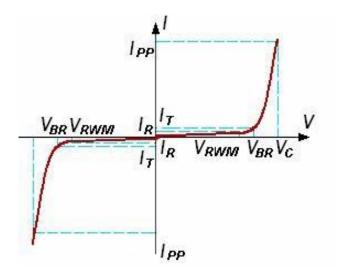
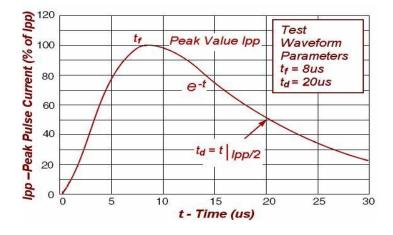
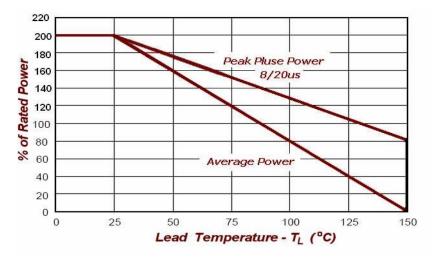


FIG1: Pulse Waveform



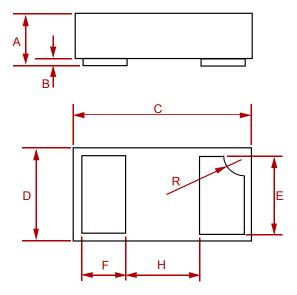






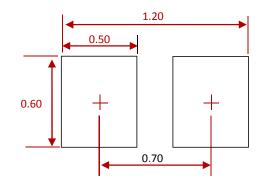
AU0511P1-MS Semiconductor Compiance

#### 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.		0.40Typ.	
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
AU0511P1-MS	DFN1006	10000



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