

150W Surface Mount ESD Protection**FEATURES**

- Ultra small package: 1.0 x0.6 x0.4mm
- Protects one data or power line
- Ultra low leakage : nA level
- Operating voltage : 24V
- Low clamping voltage
- 2-pin leadless package

APPLICATIONS

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

MECHANICAL DATA

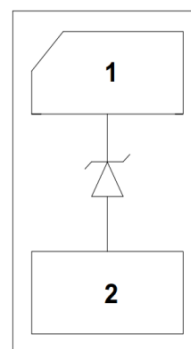
- Case : Molded, plastic
DFN1006-2L
- Polarity : Shown follows
- Epoxy : UL94-V0 rated flame retardant

IEC COMPATIBILITY

- IEC 61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- IEC 61000-4-5 (Lightning) 3A (8/20 μs)

DFN1006-2L PACKAGE

T4 = Device Marking Code

SCHEMATIC & PIN CONFIGURATION

Absolute Maximum Ratings ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

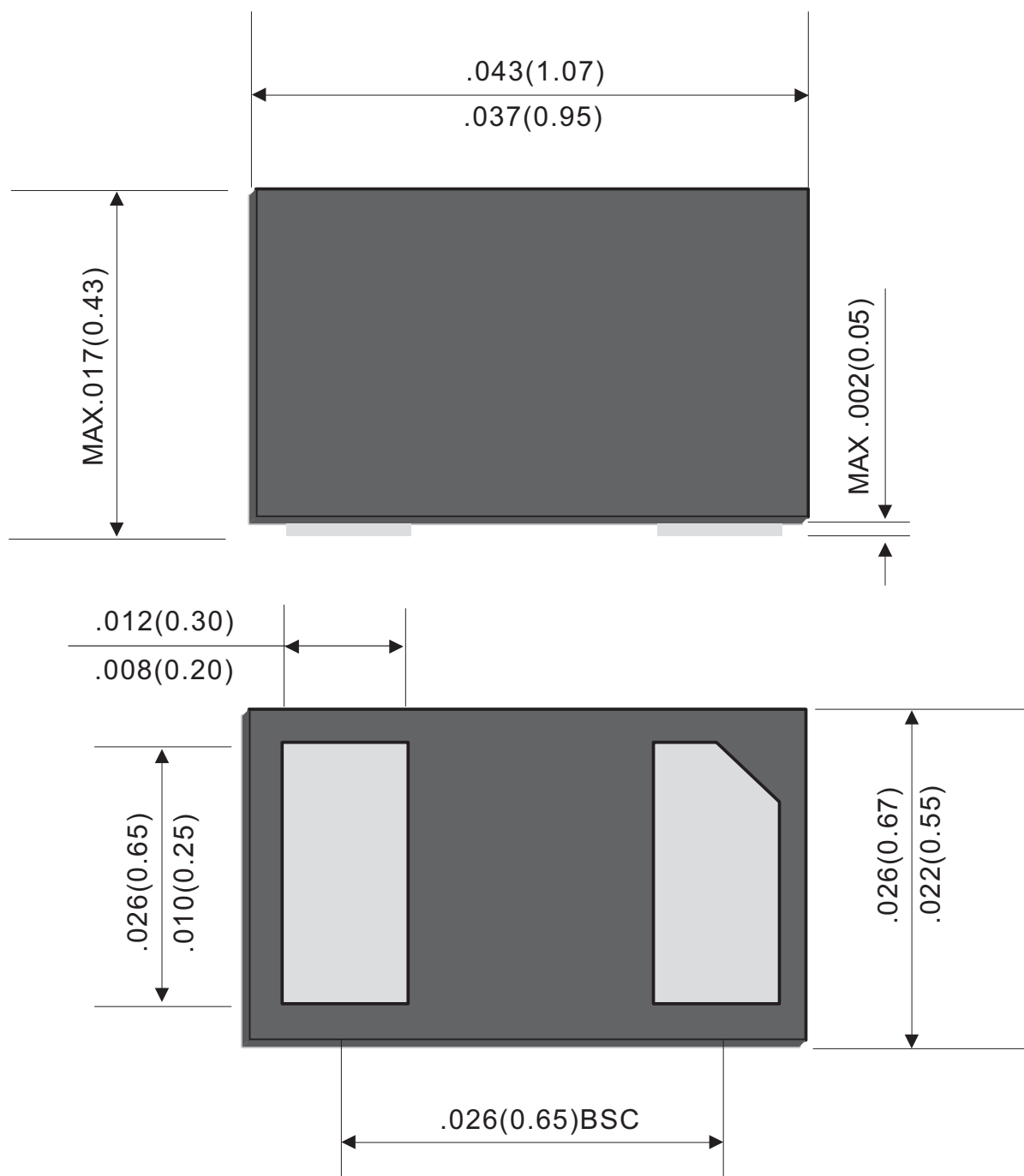
Parameter	Symbol	Value	Unit
Peak Pulse Power(8/20 μs)	Ppk	150	W
Peak Pulse Current(8/20 μs)	I _{PP}	3	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V _{ESD}	± 15 ± 8	kV
Operating Temperature Range	T _J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T _{stg}	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V _{RWM}			24	V	Pin 1 to Pin 2
Breakdown Voltage	V _{BR}	27			V	I _T = 1mA, Pin 1 to Pin 2
Reverse Leakage Current	I _R			0.2	μA	V _{RWM} = 24V, Pin 1 to Pin 2
Forward Voltage	V _F			1.2	V	I _F = 10mA, Pin 2 to Pin 1
Clamping Voltage	V _C			35	V	I _{PP} = 1A (8 x 20 μs pulse), Pin 1 to Pin 2
Clamping Voltage	V _C			50	V	I _{PP} = 3A (8 x 20 μs pulse), Pin 1 to Pin 2
Junction Capacitance	C _J			50	pF	V _R = 0V, f = 1MHz

Outline Drawing

DFN1006-2L



Dimensions in inches and (millimeters)

Rev.B-2

Ordering Information:

Device PN	Packing
SESD24V3AD-T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	Tape&Reel: 10 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

*****Disclaimer*****

WILLAS reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. WILLAS or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on WILLAS data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. WILLAS does not assume any liability arising out of the application or use of any product or circuit.

This is the preliminary specification. WILLAS products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of WILLAS. Customers using or selling WILLAS components for use in such applications do so at their own risk and shall agree to fully indemnify WILLAS Inc and its subsidiaries harmless against all claims, damages and expenditures.