

APPLICATIONS

- USB2.0,USB3.0,Ethernet
- HDMI2.0,Displayport 1.3,eSATA
- Unified Display Interface
- Digital Visual Interface
- High Speed Serial Interface

IECCOMPATIBILITY

- IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5 (Lightning) 5.0A (8/20 μs)

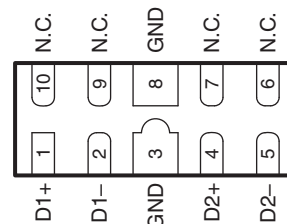
FEATURES

- 45 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$)
- Protects Four I/O lines
- Operating Voltage: 5.0V
- Ultra Low Capacitance: 0.7pF typical (I/O to GND)
- Weight: 8.0mg

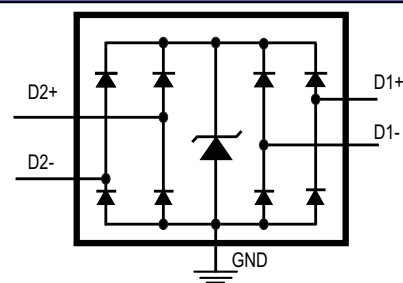
MECHANICALCHARACTERISTICS

- DFN2510-10L PACKAGE INFORMATION
- Quantity Per Reel : 3,000pcs
- Reel Size : 7 inch
- Lead Finish : Lead Free

DFN2510-10L



PIN CONFIGURATION



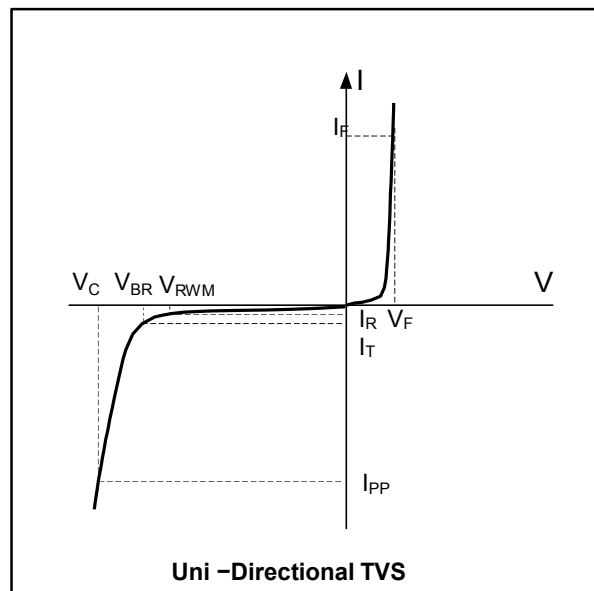
Absolute maximum rating@25°C

Rating	Symbol	Value	Unit
Peak Pulse Power ($t_P = 8/20\mu\text{s}$)	Ppp	45	W
Lead Solder Temperature –Maximum (10 Seconds)	TL	260	°C
Operating Junction Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Tstg	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

($T_A = 25^\circ\text{C}$ unless otherwise noted)

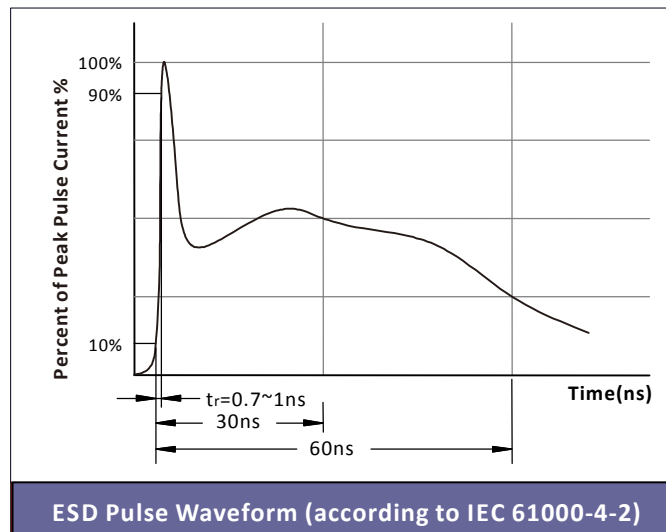
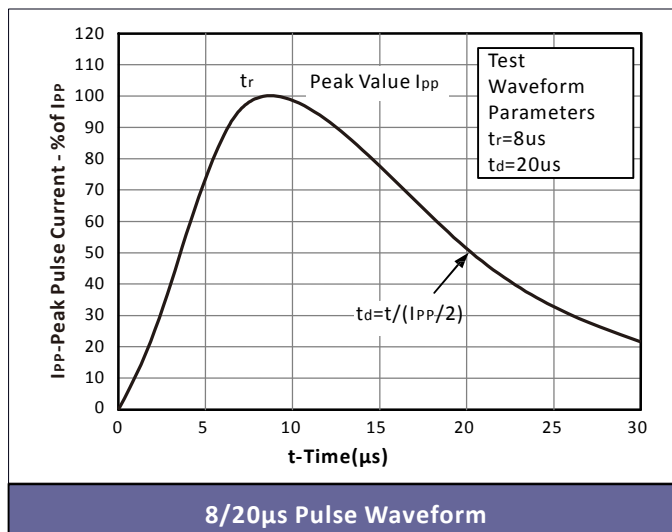
Symbol	Parameter
V_{RWM}	Peak Reverse Working Voltage
I_R	Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
P_{PP}	Peak Pulse Power
C_J	Junction Capacitance
I_F	Forward Current
V_F	Forward Voltage @ I_F



ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

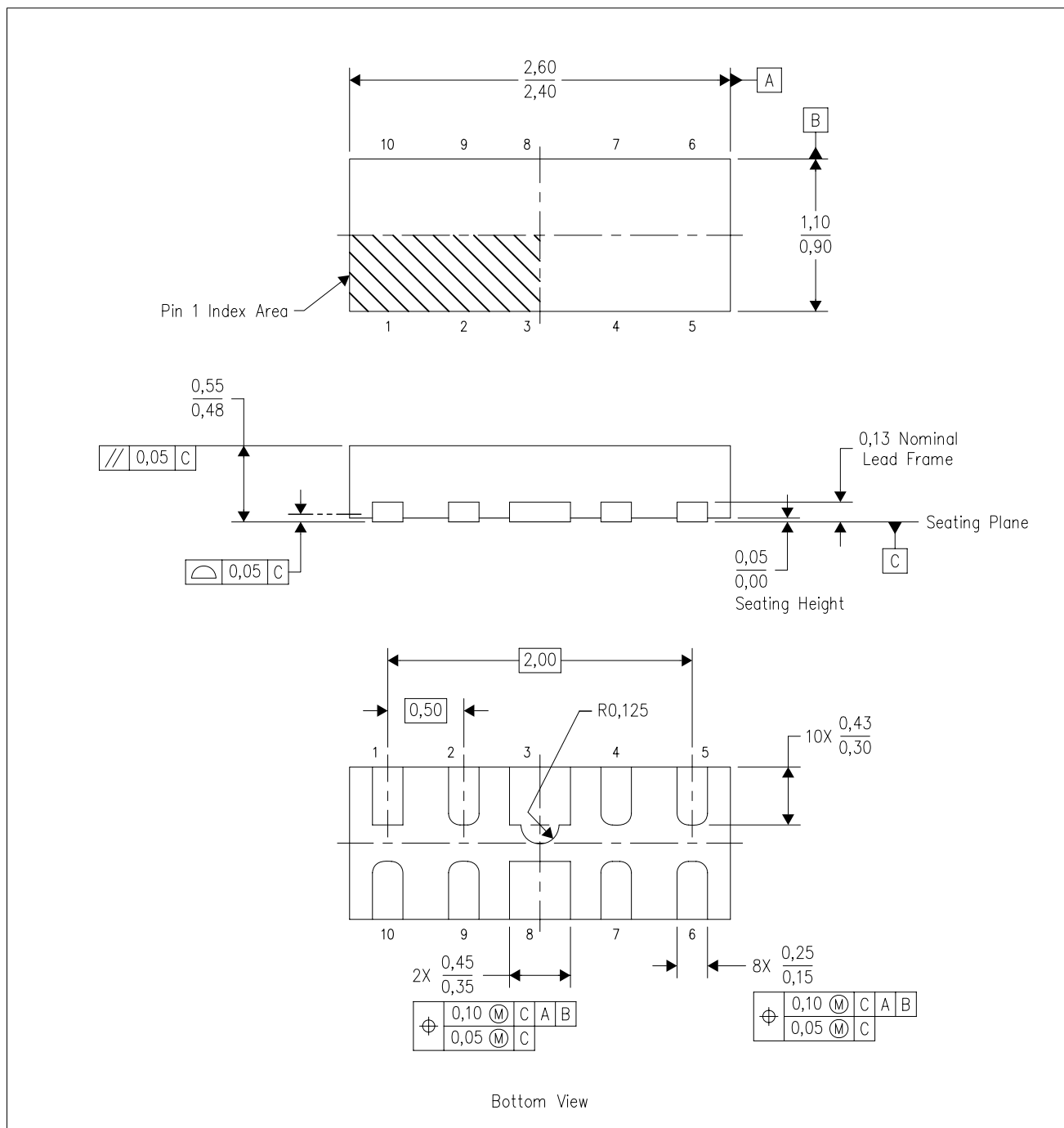
PART NUMBER	DEVICE MARKING	V_{RWM} (V) (max.)	V_B (V) (min.)	I_T (mA)	V_C (8/20us) (max.) (@A)		I_R (μA) (max.)	C_j I/O-I/O(pF) $V_{IO}=2.5V$ (Typical.)	C_j I/O-GND (pF) $V_{IO}=2.5V$ (Typical.) (max.)	
ESD0524HA	SE66R	5.0	8.0	1	9.0	5.0	0.5	0.05	0.7	0.8

CHARACTERISTIC CURVES



PACKAGE OUTLINE & DIMENSIONS

DFN2510-10L



- NOTES:
- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.
 - B. This drawing is subject to change without notice.
 - C. SON (Small Outline No-Lead) package configuration.