

DFN2510-10L ESD Array SE05NRD34GU Working Voltage 5.0V For ESD Protection

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen Guangdong China
- Brand Name: SOCAY
- Certification: REACH RoHS ISO
- Model Number: SE05NRD34GU
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Component Name: ESD Arrays
- Component Package: DFN2510-10L
- Vrwm (Max.): 5.0V
- Vbr (Min.): 6.0V
- Ir (Max.): 1.0μA
- It: 1mA
- Vc (Typ.) (Ipp=1A): 10V
- Vc (Typ.) (Ipp=4A): 13V
- Cj (Typ.) Between I/O And GND: 0.6pF
- Cj (Typ.) Between I/O And I/O: 0.4pF
- Highlight: DFN2510-10L ESD Array , ESD Array 5.0V



More Images



Product Description

DFN2510-10L ESD Arrays SE05NRD34GU Working Voltage 5.0V For ESD Protection

ESD Arrays DATASHEET: [SE05NRD34GU_v2307.1.pdf](#)

ESD Arrays Features:

Working voltage: 5.0V
 Low capacitance: 0.60pF (Typical)
 Low leakage current: 1.0 μ A @ V_{RWM}
 Low clamping voltage
 Response Time is < 1 ns

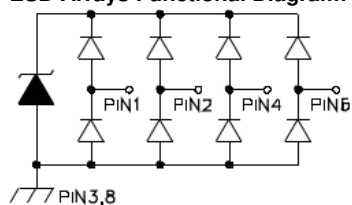
ESD Arrays Applications:

USB 3.0, USB 2.0
 HDMI 1.3/1.4, Display Port 1.3, eSATA
 Unified Display Interface (UDI)
 Digital Visual Interface (DVI)
 High Speed Serial Interfaces

ESD Arrays Mechanical Characteristics:

DFN2510-10L Package
 Molding Compound Flammability Rating: UL 94V-0
 Quantity Per Reel : 3,000pcs
 Reel Size : 7 inch

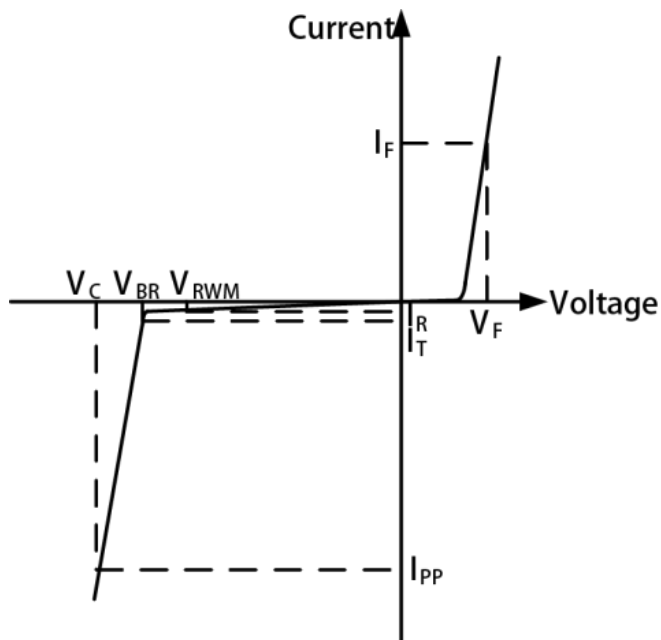
ESD Arrays Functional Diagram:



ESD Arrays Absolute Maximum Ratings ($T_A=25$ unless otherwise specified):

Symbol	Parameter	Value	Units
TLST	Lead Soldering Temperature	260 (10sec)	
TSTG	Storage Temperature Range	-55 to +150	
TOPT	Operating Temperature Range	-55 to +125	
VESD	ESD per IEC 61000-4-2(Air)	± 20	KV
	ESD per IEC 61000-4-2 (Contact)	± 15	

I-V Curve Characteristics:



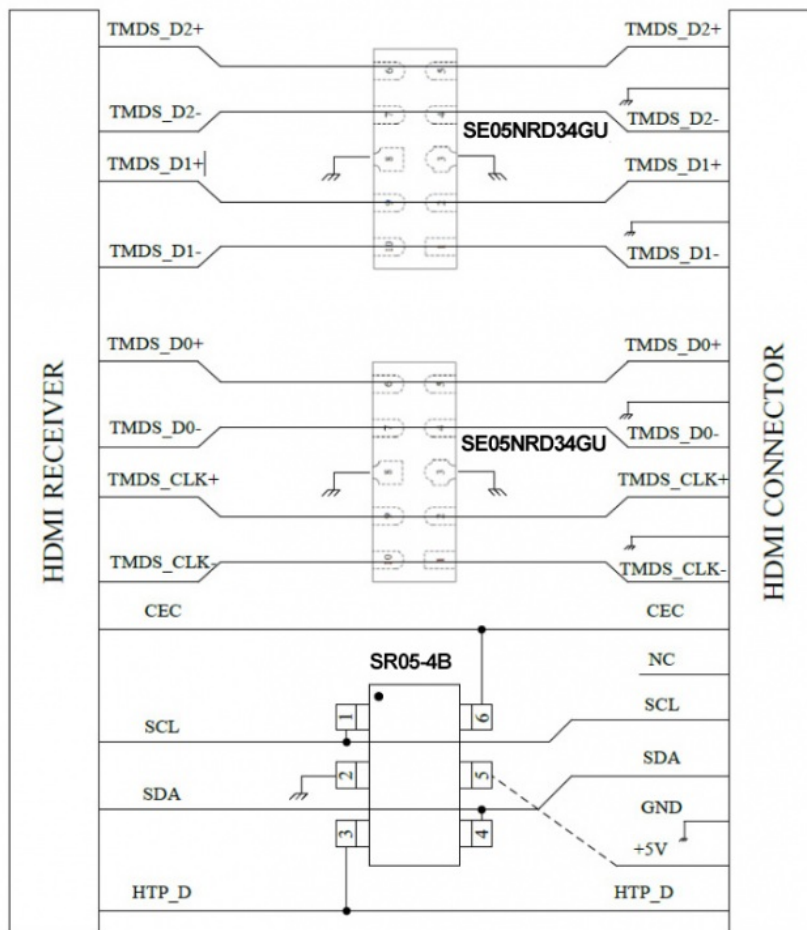
Uni-Directional TVS

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current
I _F	Forward Current
V _F	Forward Voltage @ I _F

Electrical Characteristics (T_A = 25 unless otherwise specified):

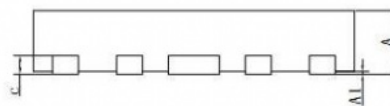
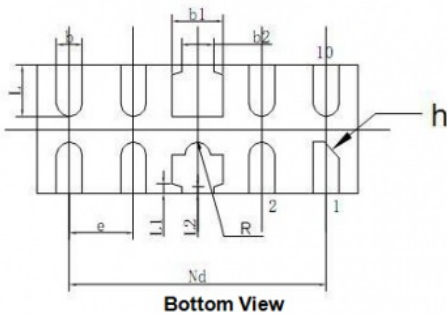
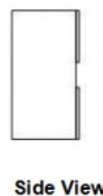
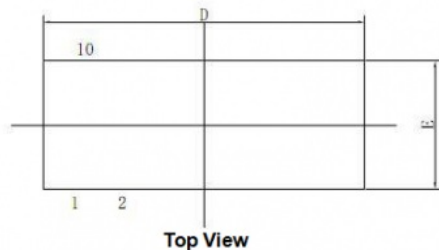
Symbol	Test Condition	Minimum	Typical	Maximum	Units
V _{RWM}	Any I/O pin to GND	--	--	5.0	V
I _R	V _{RWM} =5V, T=25 Any I/O pin to GND	--	--	1.0	μA
V _{BR}	I _T = 1mA Any I/O pin to GND	6.0	--	--	V
V _C	I _{PP} =1A, tp=8/20μs Any I/O pin to GND	--	10	--	V
V _C	I _{PP} =4A, tp=8/20μs Any I/O pin to GND	--	13	--	V
C _J	V _R =0V, f=1MHz Between I/O and GND	--	0.60	--	pF
C _J	V _R =0V, f=1MHz Between I/O and I/O	--	0.40	--	pF

ESD Arrays Application Information:



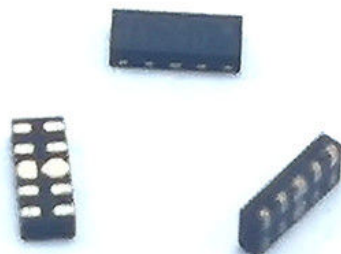
Layout Top View for HDMI Interface with SE05NRD34GU

DFN2510-10L Package Outline & Dimensions:



Symbol	Dimensions In Millimeters		
	Min.	Nom.	Max.
A	0.45	0.50	0.55
A1	--	0.02	0.05
b	0.15	0.20	0.25
b1	0.35	0.40	0.45
b2	0.20	0.25	0.30
c	0.10	0.15	0.20
D	2.45	2.50	2.55
e	0.50 BSC		
Nd	2.00 BSC		
E	0.95	1.00	1.05
L	0.35	0.40	0.45
L1	0.075 REF		
L2	0.050 REF		

h	0.08	0.12	0.15
R	0.05	0.10	0.15



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