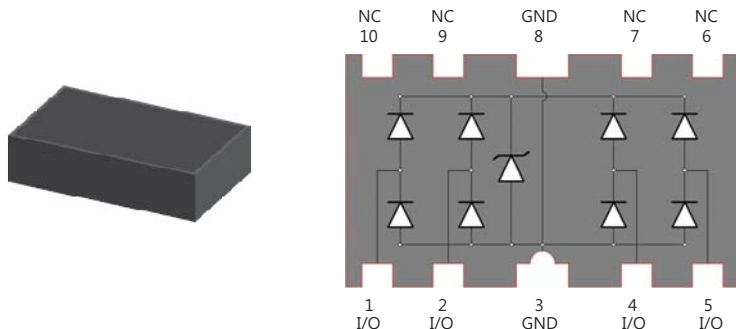


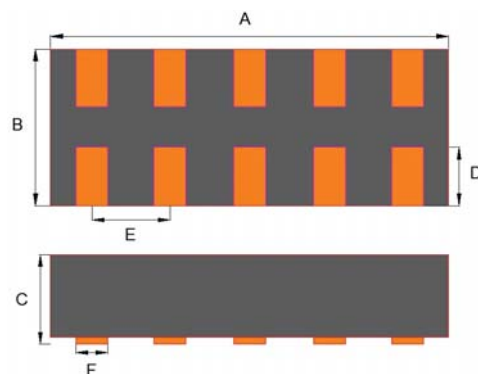


RESDMRA3V3J

3.3V 4Lines ESD Array



Package Outline



Features

- Meet IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact)
- Meet IEC61000-4-5 (Lightning) rating. 4A (8/20 μs)
- Protects four high speed I/O lines
- Working Voltage : 3.3V
- Pb free version, RoHS compliant, and Halogen free

Dimensions	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.45	2.55	0.096	0.100
B	0.95	1.05	0.037	0.041
C	0.45	0.55	0.018	0.022
D	0.30	0.40	0.012	0.016
E	0.45	0.55	0.018	0.022
F	0.20	0.40	0.008	0.016

MECHANICAL CHARACTERISTICS

- Case : DFN2510-10 standard package, molded plastic
- Terminal: Au/Sn plated, Lead free,solderable per MIL-STD-202,Method 202 guaranteed
- Marking Code : J33
- MSL : Level 1

Maximum Rating And Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Condition	Symbol	Min	Typ	Max	Unit
Peak Pulse Power	$t_p = 8 / 20 \mu\text{s}$ (According to IEC61000-4-5)	Ppp		150		W
Maximum Peak Pulse Current	$t_p = 8 / 20 \mu\text{s}$ (According to IEC61000-4-5)	Ipp		4		A
ESD per IEC 61000-4-2 (Air)		VESD		± 15		kV
ESD per IEC 61000-4-2 (Contact)				± 8		kV
Operating Junction Temperature		Tj	-55		125	°C
Storage Temperature		Tstg	-55		150	°C
Reverse Stand-Off Voltage		VRWM			3.3	V
Reverse Breakdown Voltage	It = 1mA	VBR	3.4			V
Reverse Leakage Current	VRWM = 3.3V	IR			100	nA
Clamping Voltage	Ipp = 1A , tp = 8/20 μs	Vc			8	V
Clamping Voltage	Ipp = 3A , tp = 8/20 μs				10	V
Junction Capacitance	Between I/O Pin and GND VR=0V , f=1MHz	Cj			0.65	pF



Typical Characteristics

Fig1 VR - IR

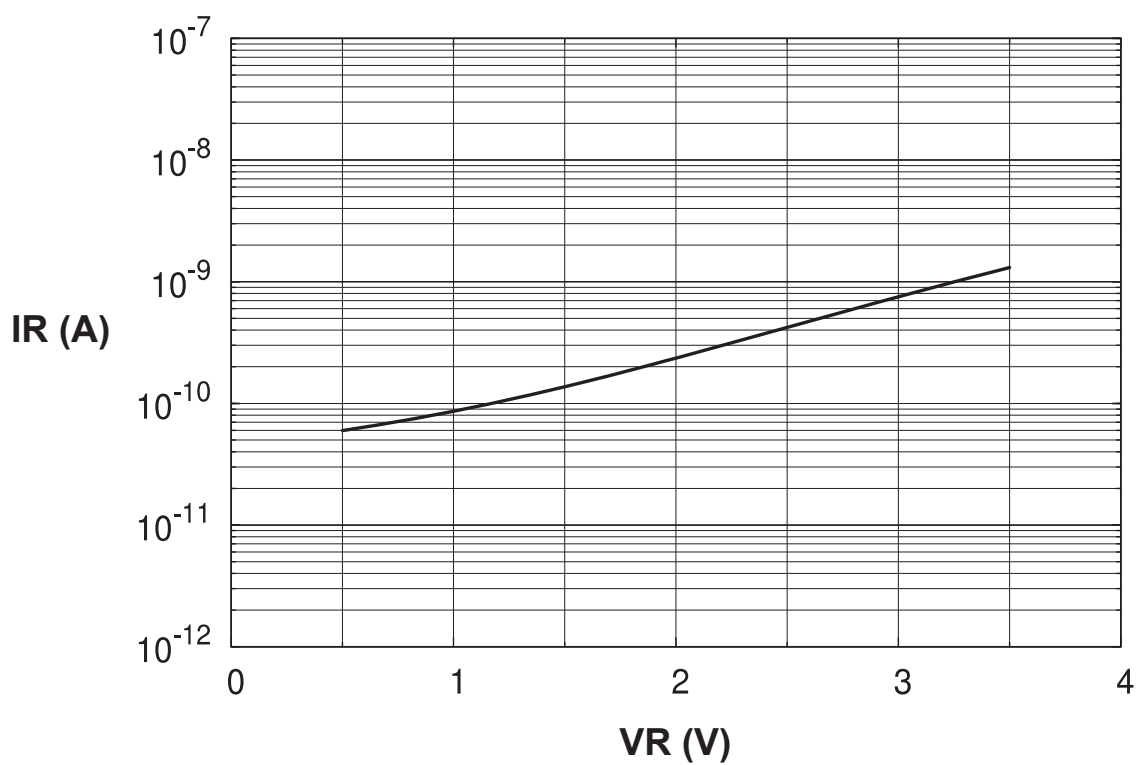


Fig2 IR - TA

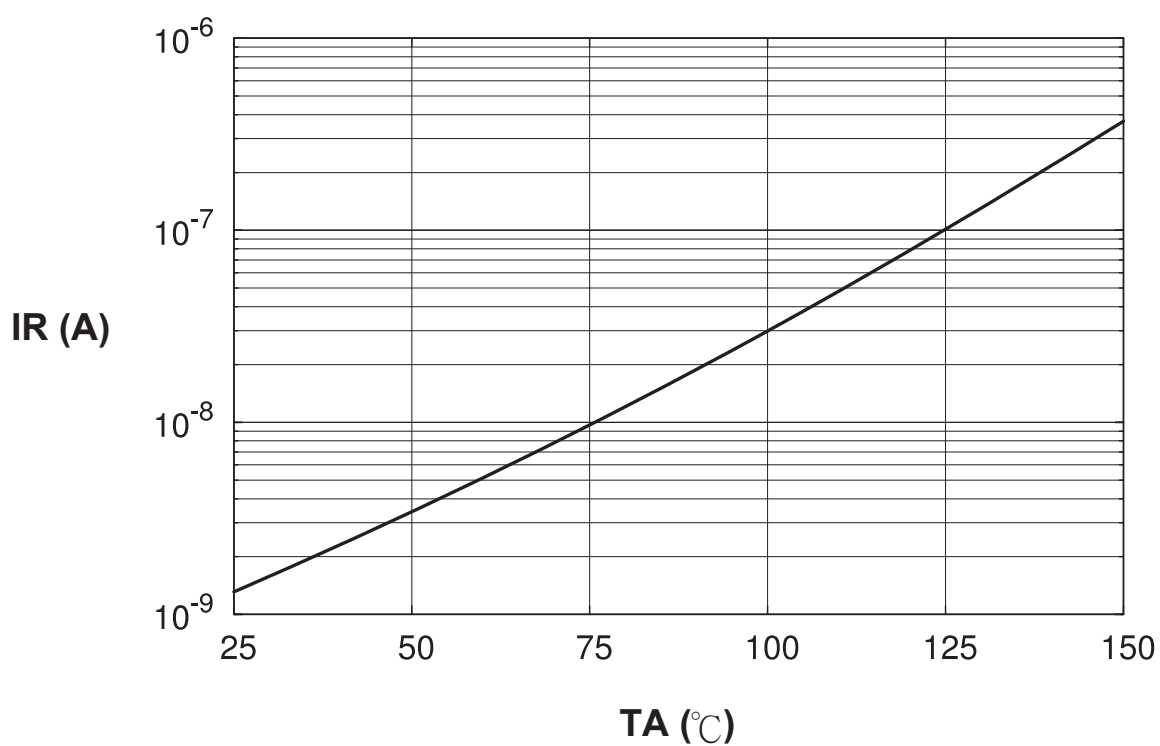
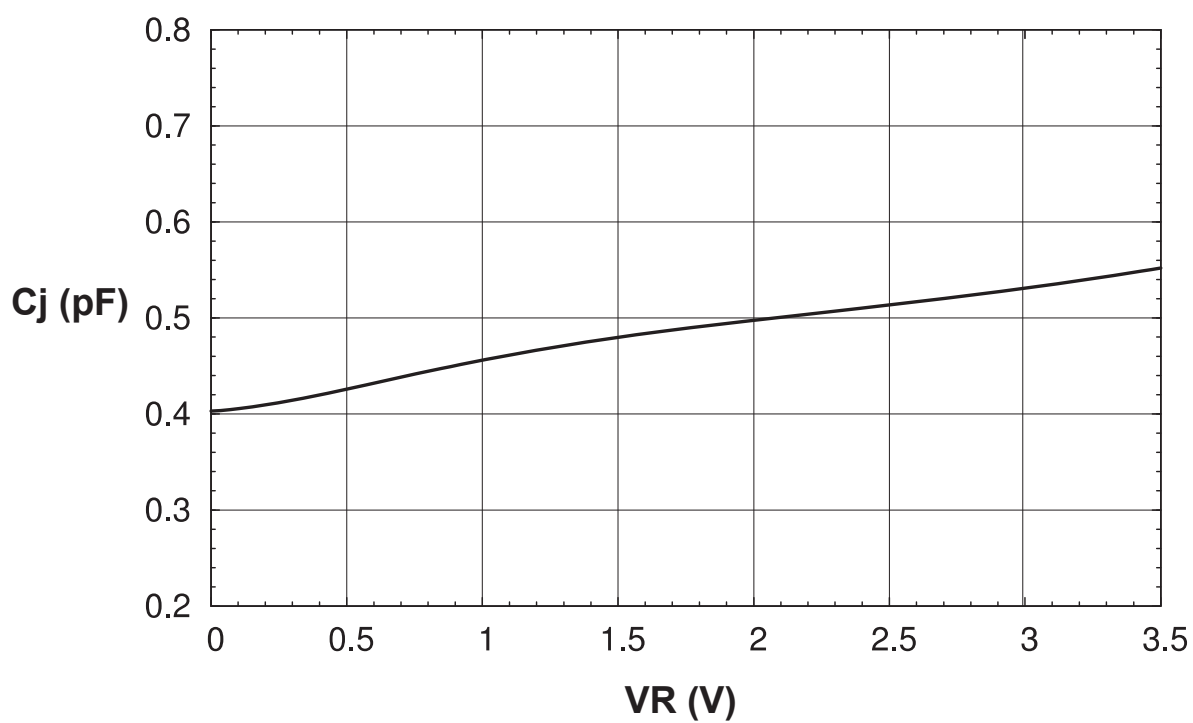


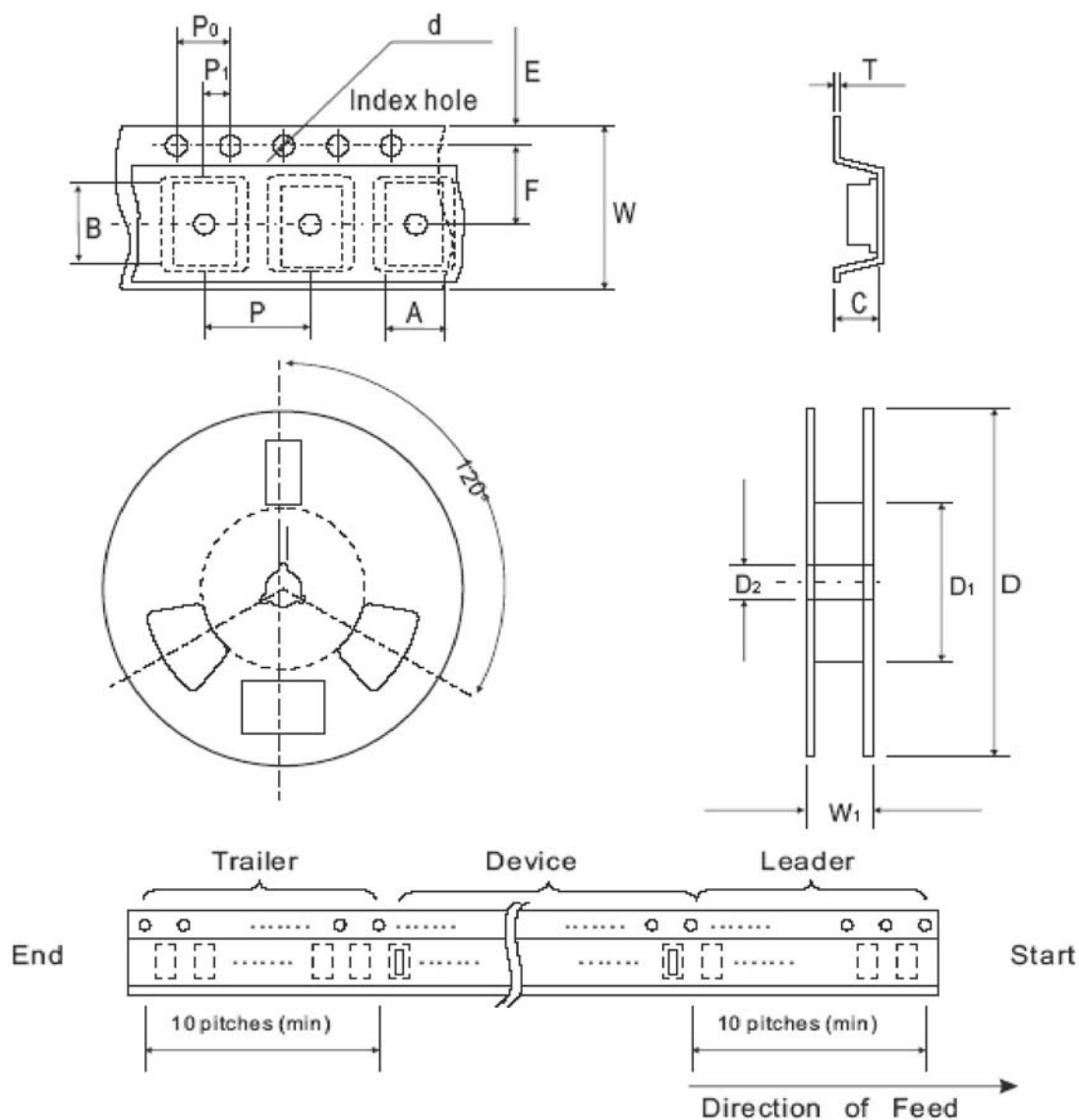


Fig3 Cj - VR





Packing Specification



Tape & Reel Dimensions

Package	Unit	A	B	C	d	D	D1	D2
DFN2510	mm	1.15±0.05	2.65±0.05	0.65±0.05	1.55±0.05	178±1	60MIN	13.0±0.20
	inch	0.045±0.002	0.104±0.002	0.026±0.002	0.061±0.002	7.008±0.04	2.362MIN	0.512±0.008

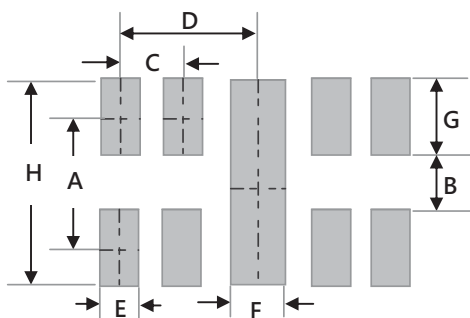
package	Unit	E	F	P	P0	P1	T	W	W1
DFN2510	mm	1.75±0.10	3.5±0.05	4.0±0.10	4.0±0.10	2.0±0.05	0.20±0.02	8.0±0.30	10.5±0.50
	inch	0.069±0.004	0.138±0.002	0.157±0.004	0.157±0.004	0.079±0.002	0.008±0.001	0.315±0.0012	0.413±0.02



Standard Package

Package	Reel Size	Qty/Reel
DFN2510	7"	3,000 pcs

RECOMMENDED SOLDERING FOOTPRINT



Reflow Soldering

Dimensions	Unit (inch)	Unit (mm)
A	0.034	0.88
B	0.008	0.20
C	0.020	0.50
D	0.039	1.00
E	0.008	0.20
F	0.016	0.40
G	0.027	0.68
H	0.061	1.55

Marking Code

Part Number	Marking Code
RESDMRA3V3J	J33

. J33

DISCLAIMERS

These products are not designed for use in applications where any failure or malfunction may result in personal injury, death or severe property or environmental damage such as medical, military, aircraft, space or life support equipments.