



RESDMRA5V0JC

- ◇ 4-Line Uni-Directional Transient Voltage Suppressor
- ◇ Low Leakage
- ◇ Low Clamping Voltage
- ◇ IEC 61000-4-2 ESD Protection
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)

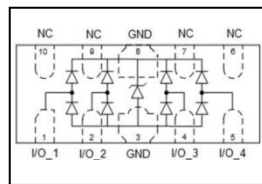
Device Marking Code

RESDMRA5V0JC

0524P

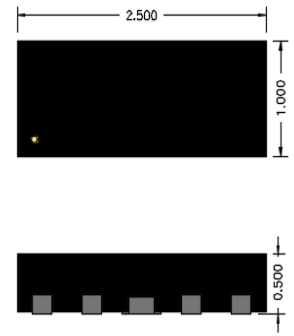
Dot Denotes Pin1

Equivalent Circuit



DFN2510-10L

Unit: mm



Maximum Ratings (Ta = 25 °C)

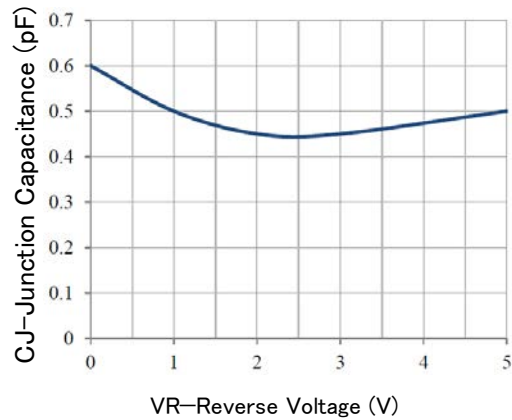
Symbol	Parameter	Value	Units
V _{ESD-Air}	ESD Voltage IEC61000-4-2 Air	±25	kV
V _{ESD-Contact}	ESD Voltage IEC61000-4-2 Contact	±20	
P _{PK}	Peak Pulse Power (8/20us)	60	W
I _{PP}	Peak Pulse Current (8/20us)	4	A
T _J	Junction Temperature	-55 to 125	°C
T _{STG}	Storage Temperature	-55 to 150	°C

Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)

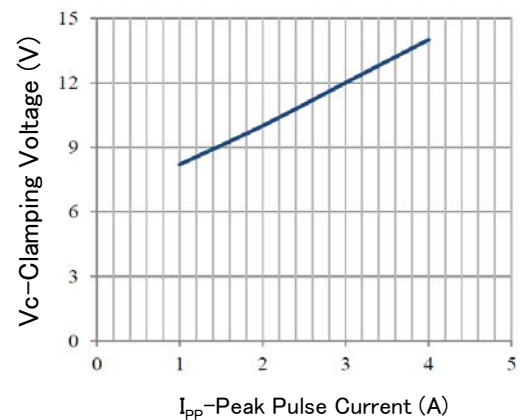
Symbol	Parameter	Conditions	Min	Typ	Max	Units
V _{RWM}	Reverse Working Peak Voltage				5.0	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	6.0	7.5	8.5	V
I _R	Reverse Current	V _{RWM} = 5.0V			0.5	μA
V _C	Clamping Voltage	I _{PP} = 1A(8/20us)			9	V
		I _{PP} = 4A(8/20us)			15	
C	Capacitance	V _R = 0V, f = 1MHz, IO-GND		0.6	0.7	pF
C	Capacitance	V _R = 0V, f = 1MHz, IO-IO		0.3	0.35	pF



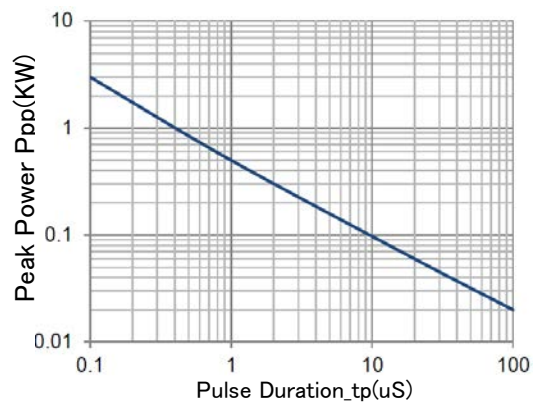
Typical Characteristics



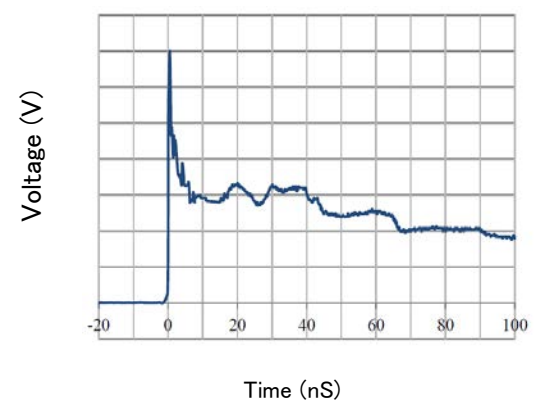
Junction Capacitance vs. Reverse Voltage



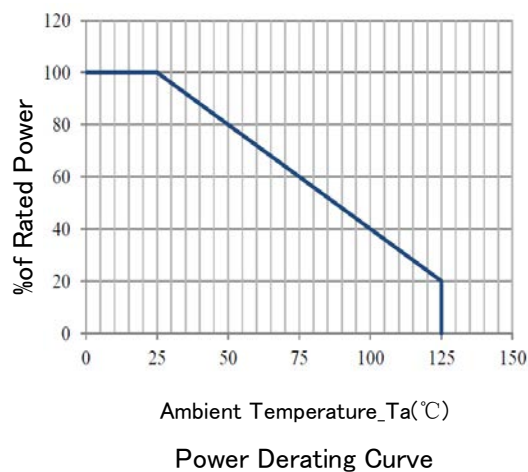
Clamping Voltage vs. Peak Pulse Current



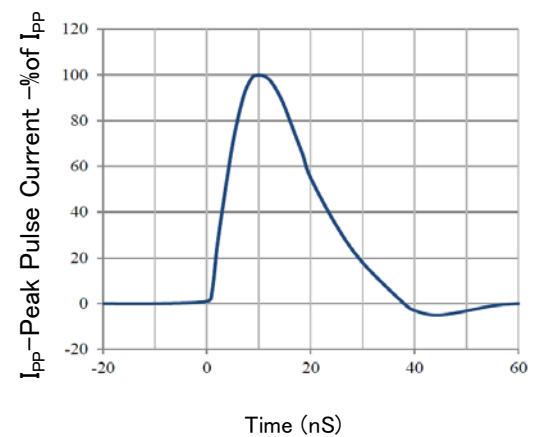
Peak Pulse Power VS. Pulse Time



IEC61000-4-2 Pulse Waveform



Power Derating Curve



8 X 20us Pulse Waveform

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
RESDMRA5V0 JC	DFN2510-10L	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions

