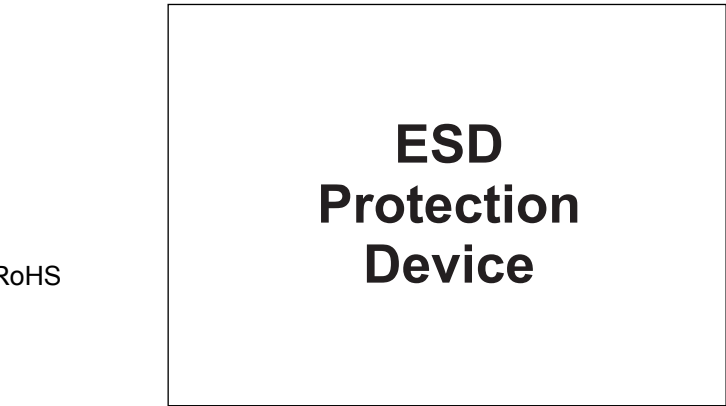


Features

- Low Clamping Voltage
- Ultra Low Capacitance
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

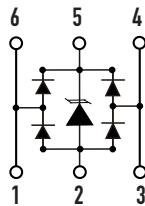


MCC Part Number	Device Marking
SRL05P7	26

IEC61000-4-2(ESD)	Air Contact	±20KV ±15KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I _{PP}	5A
Peak Pulse Power (8/20us)	P _{PK}	90W

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



Pin	Identification
1,3,4,6,	Input Lines
5	V _{BUS}
2	Ground

DFN1510-6

DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.020	0.024	0.50	0.60	
A1	0.000	0.002	0.00	0.05	
b	0.006	0.010	0.15	0.25	
C	0.006		0.15		TYP.
D	0.055	0.063	1.40	1.60	
E	0.035	0.043	0.90	1.10	
e	0.020		0.50		TYP.
h	0.004	0.006	0.10	0.15	
L	0.010	0.018	0.25	0.45	

Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Working Voltage	V_{RWM}	Pin 5 to 2			5	V
Reverse Breakdown Voltage	V_{BR}	$I_T = 1\text{mA}$, Pin 5 to 2	6.1		9.6	V
Reverse Leakage Current	I_R	$V_R = 5.25\text{V}$, Pin 5 to 2			0.9	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}$, $t_p = 8/20\mu\text{s}$, Pin 1,3,4,6 to 2			12	V
Clamping Voltage	V_C	$I_{PP} = 5\text{A}$, $t_p = 8/20\mu\text{s}$, Pin 1,3,4,6 to 2			17	V
Junction Capacitance	$C_{I/O-GND}$	$V_R = 0\text{V}$, $f = 1\text{MHz}$, Pin Capacitance to GND.		0.6	1	pF
Junction Capacitance	$C_{I/O-I/O}$	$V_R = 0\text{V}$, $f = 1\text{MHz}$, Pin Capacitance to I/O.		0.5	0.8	pF

Curve Characteristics

Fig. 1 - Non-Repetitive Peak Pulse Power

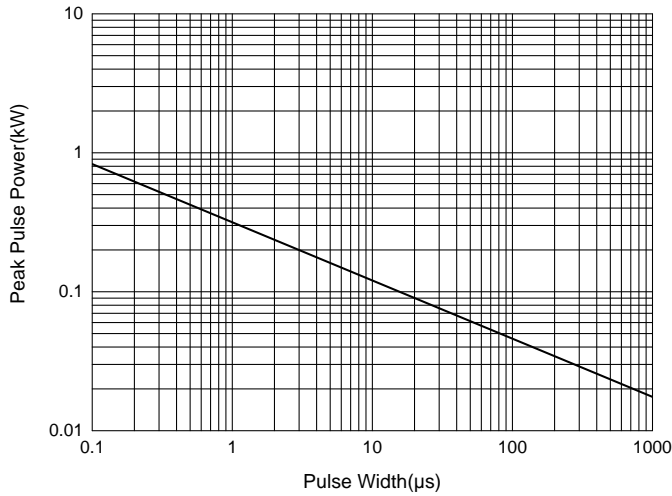


Fig. 2 - 8 X 20μs Pulse Waveform

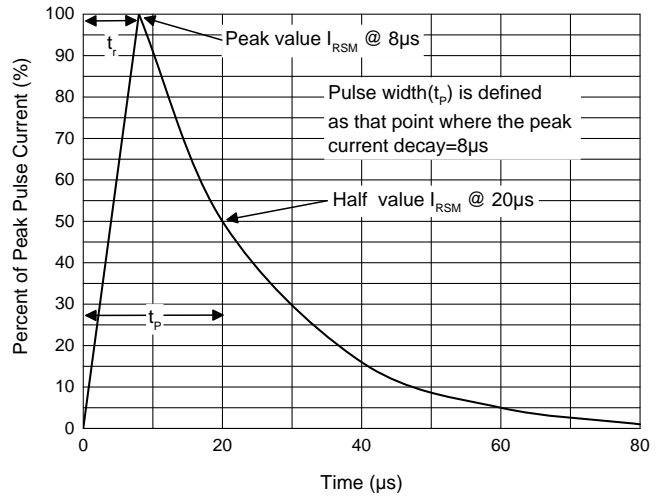


Fig. 3 - Power Derating Curve

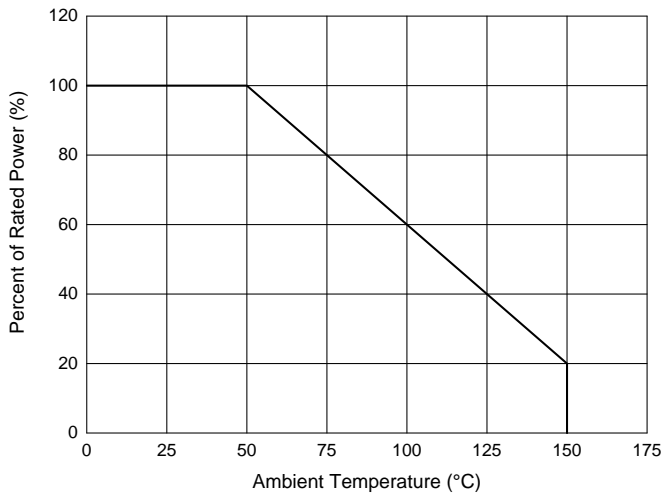


Fig. 4 - Capacitance Characteristics

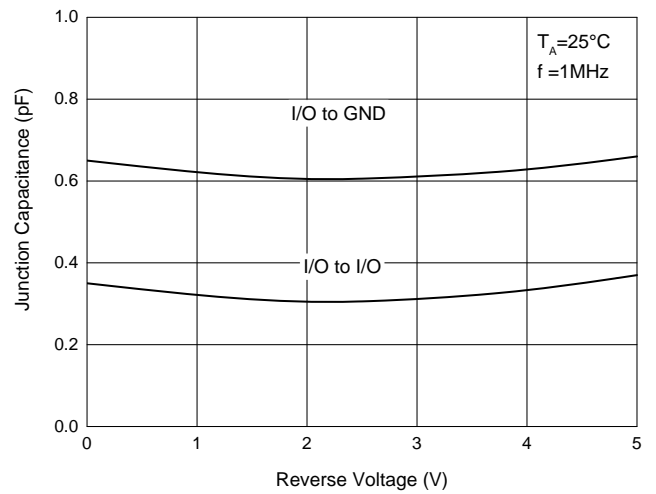
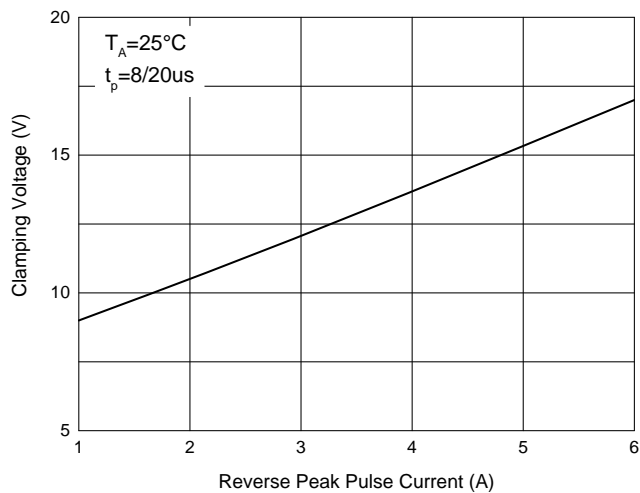


Fig. 5 - Clamping Voltage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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