

Features

- Low Clamping Voltage
- Ultra Low Capacitance
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

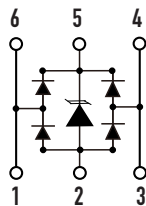
Maximum Ratings

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

MCC Part Number	Device Marking
SRL05	UL26

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

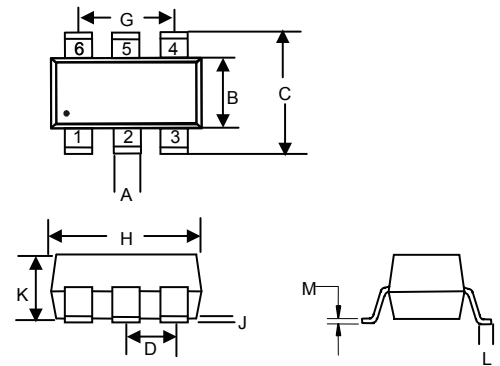
Internal Structure



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

ESD Protection Device

SOT23-6L



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.012	0.020	0.30	0.50	
B	0.051	0.070	1.30	1.80	
C	0.087	0.126	2.20	3.20	
D	0.037		0.95		TYP.
G	0.074		1.90		TYP.
H	0.106	0.122	2.70	3.10	
J	0.002	0.006	0.05	0.15	
K	0.030	0.051	0.75	1.30	
L	0.012	0.024	0.30	0.60	
M	0.003	0.008	0.08	0.22	

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

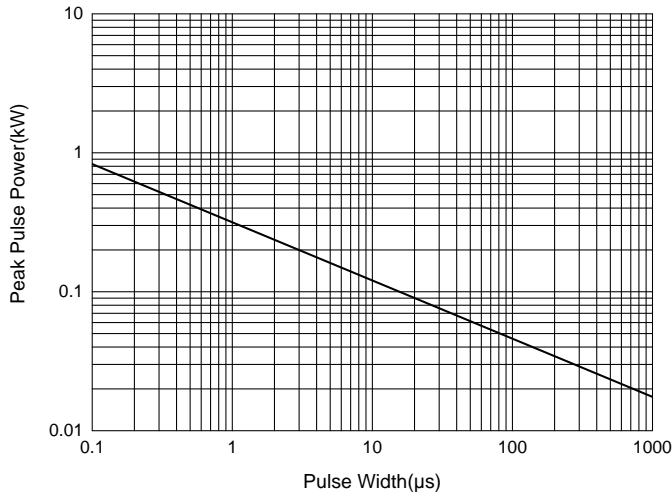


Fig. 2 - 8 X 20μs Pulse Waveform

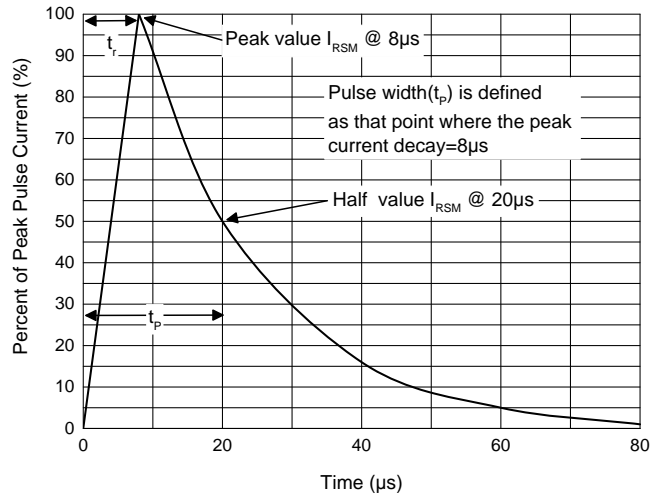


Fig. 3 - Power Derating Curve

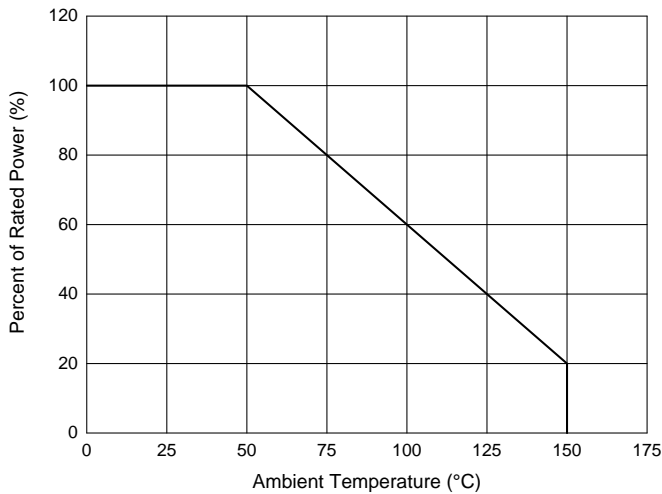


Fig. 4 - Capacitance Characteristics

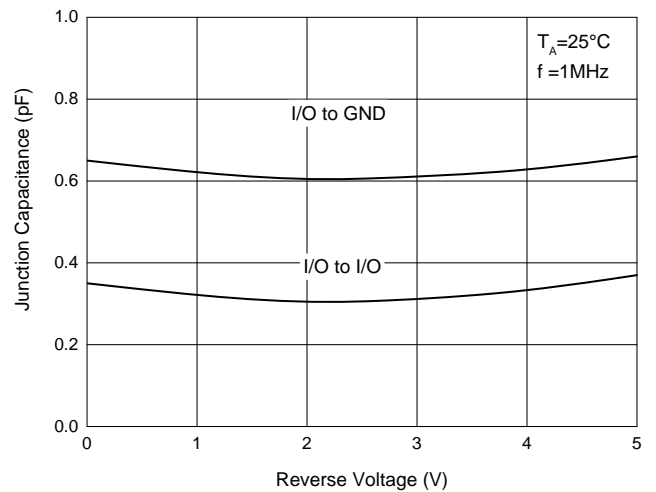
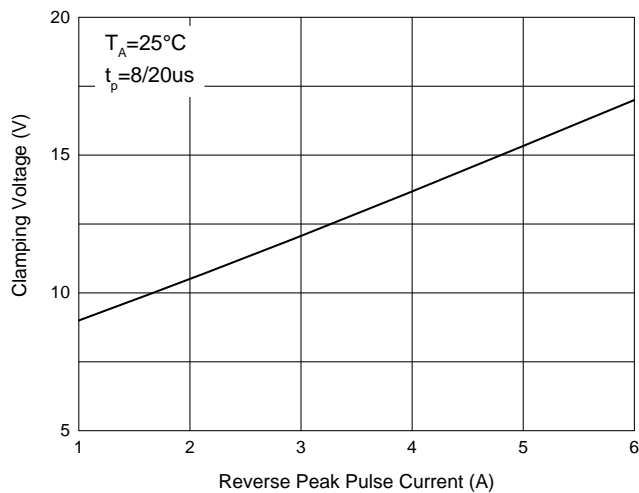


Fig. 5 - Clamping Voltage Characteristics



Ordering Information

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

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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