

## Features

- High Power Rating
- Low Capacitance
- Low Leakage Current
- Low Clamping Voltage
- 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)

## ESD Protection Device

## Maximum Ratings

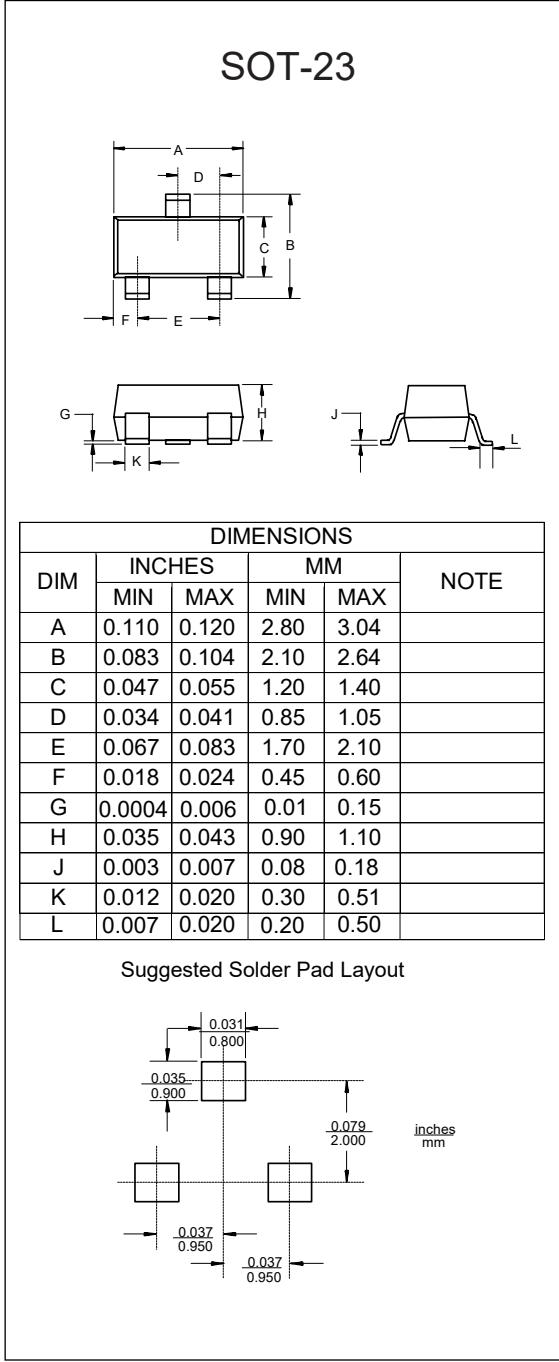
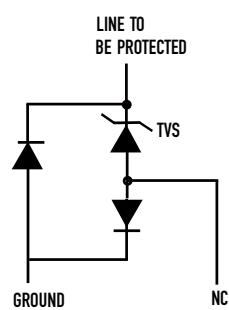
- Operating Junction Temperature Range: 55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC5V0C2	V5C1

IEC61000-4-2(ESD)	Air Contact	±25KV ±25KV
Peak Pulse Power (8/20us)	P <sub>PK</sub>	650W

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



**Electrical Characteristics (Between I/O to GND) @ 25°C (Unless Otherwise Specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T = 1\text{mA}$	6		8	V
Reverse Leakage Current	$I_R$	$V_{RWM} = 5\text{V}$			1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F = 10\text{mA}$			0.9	V
Clamping Voltage	$V_C$	$I_{PP}=25\text{A}, t_p=8/20\mu\text{s}$			26	V
Junction Capacitance	$C_J$	$V_R = 0\text{V}, f = 1\text{MHz}$		1.3	2	pF

## Curve Characteristics

Fig. 1 - 8 X 20 $\mu$ s Pulse Waveform

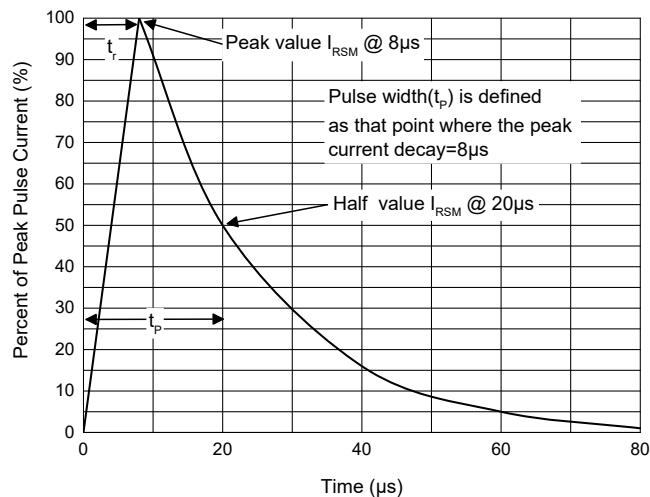


Fig. 2 - Pulse Derating Curve

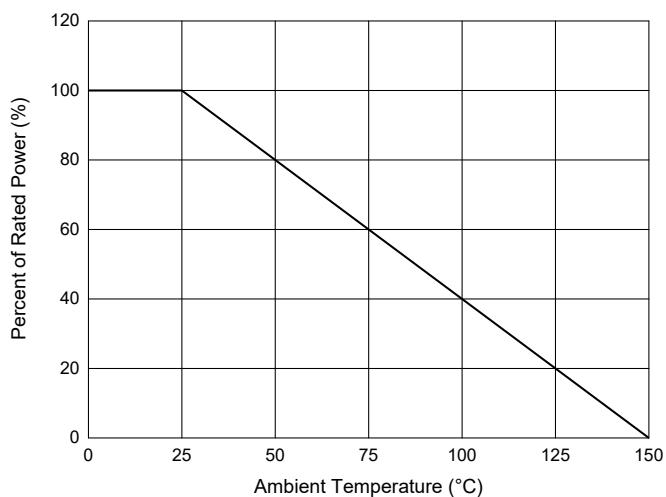


Fig. 3 - Capacitance Characteristics

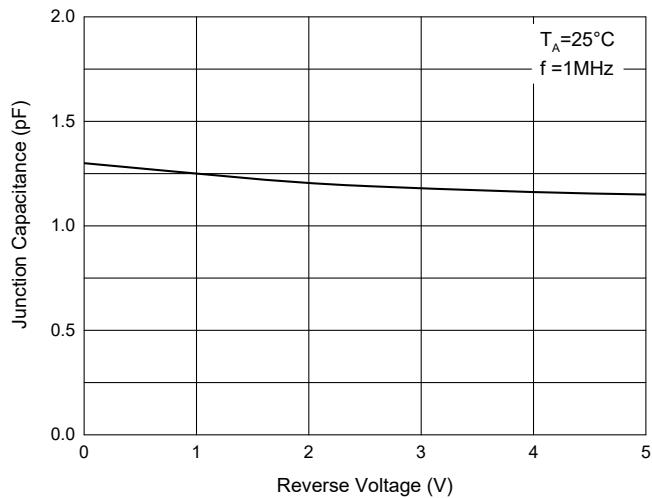


Fig. 4 - Clamping Voltage Characteristics

