

#### **Features**

- · Protects Three Data Lines
- · Low Clamping Voltage
- · 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**

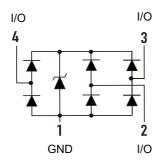
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
SR05	ASR05		

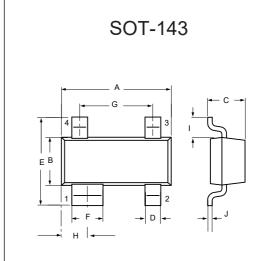
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20μs)	I <sub>PP</sub>	25A
Peak Pulse Power (8/20us)	P <sub>PK</sub>	500W

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**



# ESD Protection Device



DIMENSIONS						
DIM	INC	INCHES N		М	NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.047	0.055	1.20	1.39		
С	0.031	0.048	0.80	1.22		
D	0.011	0.020	0.30	0.51		
Е	0.082	0.104	2.10	2.64		
F	0.029	0.037	0.76	0.94		
G	0.070	0.080	1.78	2.03		
Η	0.028	0.033	0.72	0.83		
I	0.015	0.024	0.40	0.60		
J	0.003	0.008	0.08	0.20		

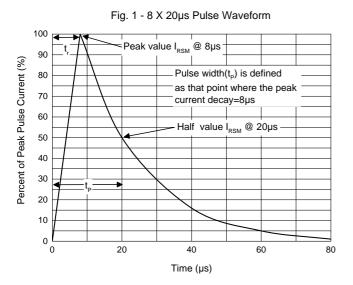


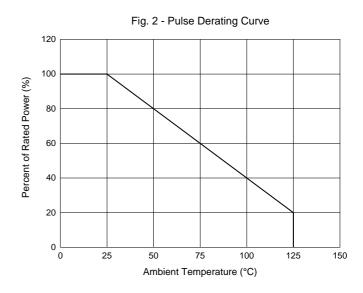
# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

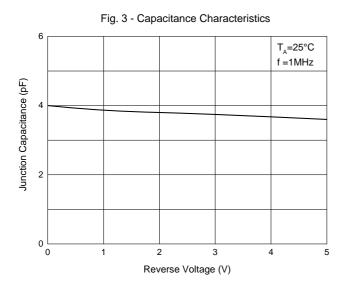
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				5	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> = 1mA	6			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			0.5	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			9	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =25A, t <sub>P</sub> =8/20μs			20	V
Junction Capacitance	CJ	V <sub>R</sub> = 0V, f = 1MHz, I/O Pin to GND			6	pF
Junction Capacitance	CJ	V <sub>R</sub> = 0V, f = 1MHz, Between I/O Pins		3		pF

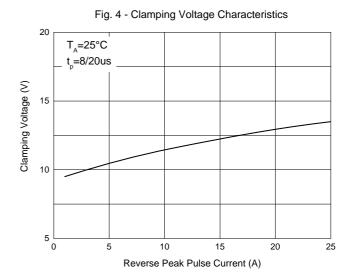


### **Curve Characteristics**











## **Ordering Information**

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

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