

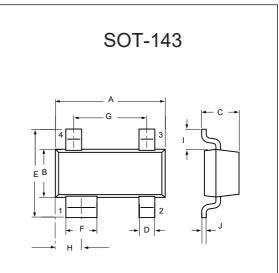
Features

- Protects Two Data Lines and One Power Line
- 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





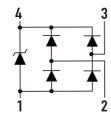
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	0.110	0.120	2.80	3.04	
В	0.047	0.055	1.20	1.39	
С	0.031	0.048	0.80	1.22	
D	0.011	0.020	0.30	0.51	
Е	0.082	0.104	2.10	2.64	
F	0.029	0.037	0.76	0.94	
G	0.070	0.080	1.78	2.03	
Н	0.028	0.033	0.72	0.83	
I	0.015	0.024	0.40	0.60	
J	0.003	0.008	0.08	0.20	

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 _{PP}	25A
Peak Pulse Power (8/20us)	P _{PK}	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





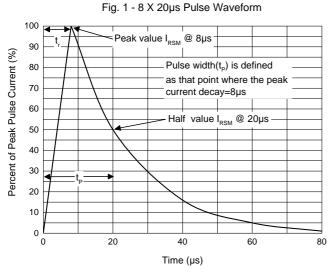
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Clamping Voltage	V _c	I _{PP} =1A, t _P =8/20µs			9	V
Clamping Voltage	V _c	I _{PP} =25A, t _P =8/20μs			20	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz,$ I/O Pin to GND			6	pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between I/O Pins		3		pF





Curve Characteristics



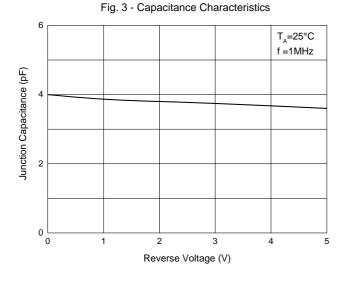
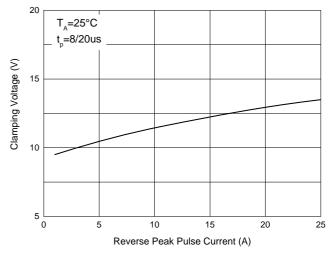


Fig. 2 - Pulse Derating Curve Percent of Rated Power (%) Ambient Temperature (°C)

Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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