

Features

- · Unidirectional Configuration
- Protects 2 I/O Ports & Power Supply
- · 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

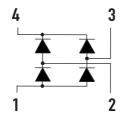
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
SR70	ASR70		

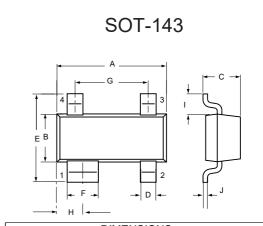
IEC61000-4-2(ESD)	Air Contact	±15KV ±8KV	
IEC 61000-4-5(Lightning)		1KV	
Peak Pulse Current(8/20µs)	I _{PP}	24A	

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

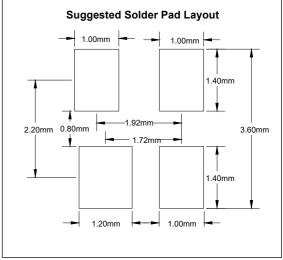
Internal Structure



ESD Protection Device



DIMENSIONS					
DIM IN		HES	MM		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	
Н	0.028	0.033	0.72	0.83	
ı	0.015	0.024	0.40	0.60	
J	0.003	0.008	0.08	0.20	



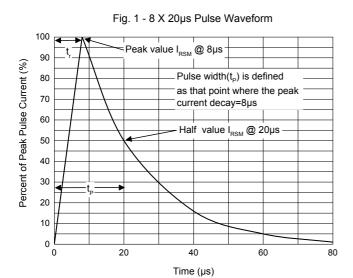


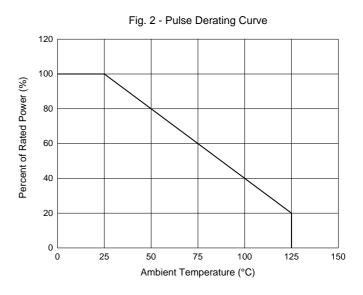
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

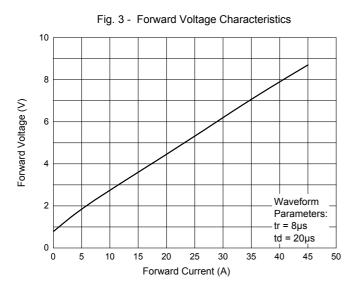
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Peak Reverse Stand-Off Voltage	V_{RRM}				70	V
Reverse Breakdown Voltage	V_{BR}	I _T = 50μA	85			V
Reverse Leakage Current	I _R	V _{RWM} =70V			5	μA
Forward Clamping Voltage	V_{FC}	I _{PP} =1A, t _P =8/20μs			1.5	V
Forward Clamping Voltage	V_{FC}	I _{PP} =10A, t _P =8/20μs			3.3	V
Forward Clamping Voltage	V_{FC}	I _{PP} =24A, t _P =8/20μs			7	V
Junction Capacitance	С	V _R = 0V, f = 1MHz, Between I/O pin and Ground		5	10	pF
Junction Capacitance	Сл	V _R = 0V, f = 1MHz, Between I/O Pins		3		pF

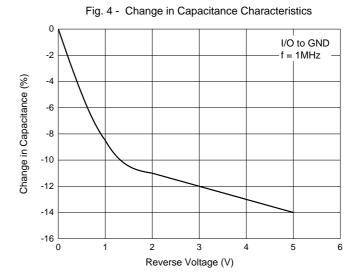


Curve Characteristics











Ordering Information

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

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