

### **Features**

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

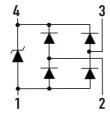
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
ESD5V0T143-4U	R05A		

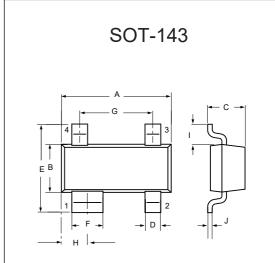
Peak Pulse Power (8/20us)	P <sub>PK</sub>	500W

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 INCHES		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	
1	0.015	0.024	0.40	0.60	
J	0.003	0.008	0.08	0.20	

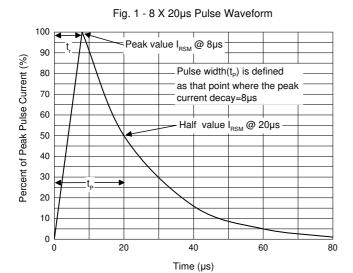


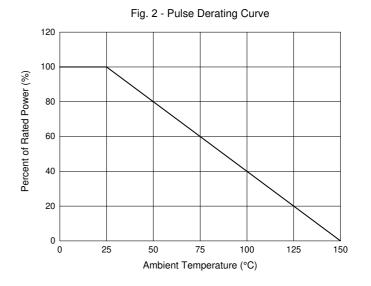
## Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				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			5	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1A			1.5	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			9.8	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =28A, t <sub>P</sub> =8/20μs			20	V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		3		pF



## **Curve Characteristics**







## **Ordering Information**

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

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