



Micro Commercial Components

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ESD5V0T143-4U

5 Volts ESD Protector

Features

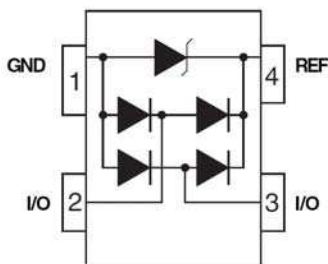
- Halogen free available upon request by adding suffix "-HF"
- 500 Watts Peak Power per Line ($t_p = 8/20\mu s$)
- ESD Protection > 25 kilovolts
- Low Clamping Voltage
- Unidirectional Configuration
- Protects 2 I/O Ports & Power Supply
- Low Capacitance
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

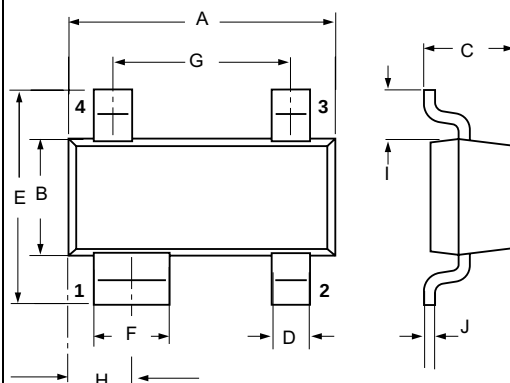
- Operating Junction & Storage Temperature: -55°C to $+150^{\circ}\text{C}$

Parameter	Symbol	Limits	unit
Peak Pulse Power ($t_p=8/20\mu s$)	P_{pp}	500	W
Peak Forward voltage@1A	V_F	1.5	V

Pin Configuration



SOT-143



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.047	.055	1.20	1.39	
C	.033	.045	0.84	1.14	
D	.015	.020	0.39	0.50	
E	.083	.098	2.11	2.48	
F	.031	.037	0.79	0.93	
G	.070	.080	1.78	2.03	
H	.028	.033	0.72	0.83	
I	.018	.024	0.46	0.60	
J	.003	.006	0.08	0.15	

Electrical characteristics per line@25°C(unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown voltage	V_{BR}	$I_t = 1mA$	6			V
Reverse Leakage Current	I_R	$V_{RWM} = 5V$ $T=25^{\circ}C$			5	μA
Clamping Voltage	V_C	$I_{PP} = 1A$ $t_P = 8/20\mu S$			9.8	V
Clamping Voltage	V_C	$I_{PP}=28A$ $t_P = 8/20\mu S$			20.0	V
Junction Capacitance	C_j	$V_R=0V$ $f = 1MHz$		3		pF

Typical Characteristics

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

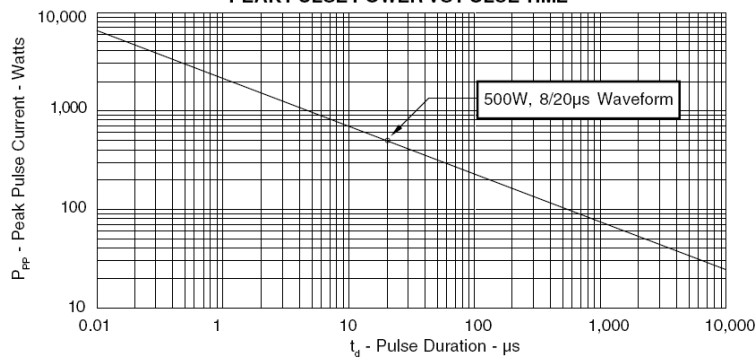
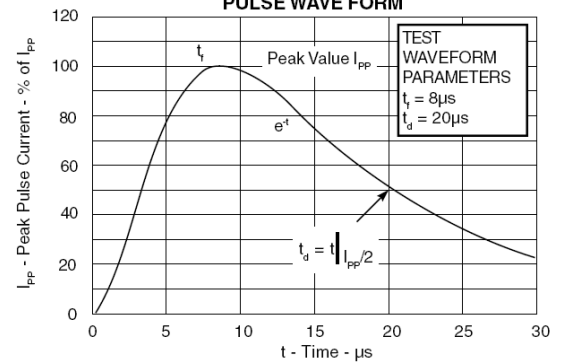


FIGURE 2
PULSE WAVE FORM





TM

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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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