

Features

- Ultra Low Capacitance
- · Low Operating Voltage
- · Low Clamping Voltage
- · Protects Two Data Lines and One Power Line
- · 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

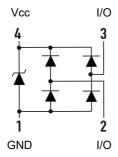
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking		
LSR05	R0502		

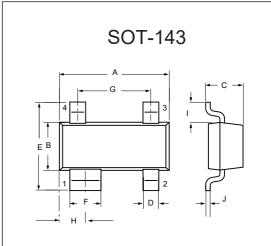
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20μs)	I _{PP}	5A
Peak Pulse Power (8/20us)	P _{PK}	130W

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

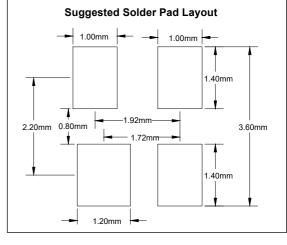
Internal Structure



ESD Protection Device



DIMENSIONS						
DIM	INCHES N		M	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	80.0	0.20		





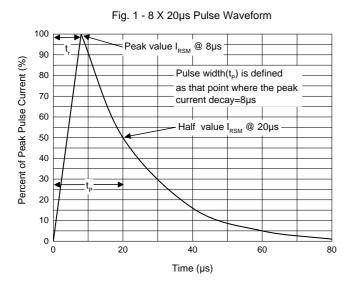
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

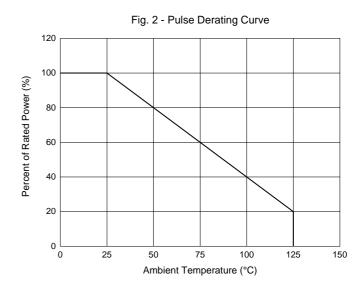
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V		0.005	0.5	μA
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Any I/O Pin to Ground			9	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs, Any I/O Pin to Ground			12	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Any I/O Pin to Ground			0.8	pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between I/O Pins		0.3	0.4	pF

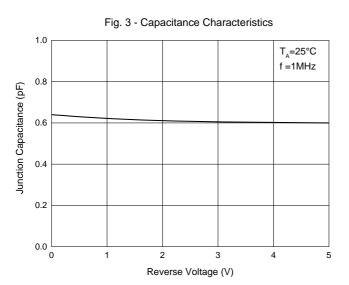
Note: I/O Pins are Pin 2 & 3

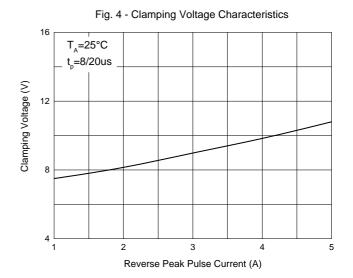


Curve Characteristics











Ordering Information

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

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