

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- SOT-723 package
- Low clamping voltage
- Low leakage current
- Working voltage: 5V
- Protect up two data lines
- 110 watts peak pulse power(tp=8/20us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

• Operating Junction & StorageTemperature: -55°C to +150°C

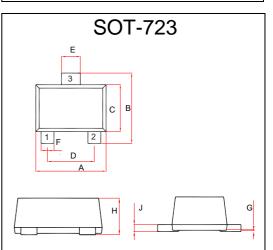
Parameter		Symbol	Limits	unit	
IEC61000-4-2(ESD)	Air		± 15		
	Contact		±8	ΚV	
ESD Voltage per human body mode			16	KV	
Peak Pulse Power (t _p =8/20µS)		Ррр	110	W	
Peak Pulse Current (t _p =8/20µS)		I _{pp}	5.5	Α	

Pin Configuration-Top View



ESDLC5V0T7

5V Low Capacitance ESD Protection Device



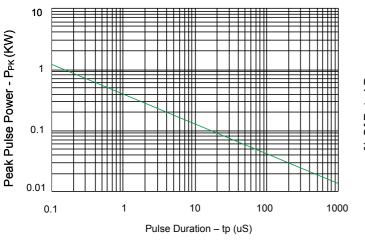
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	. 045	.049	1.15	1.25	
В	. 045	.049	1.15	1.25	
С	. 0 30	.033	0.75	0.85	
D	.031TYP.		0.80TYP.		
E	.011	.015	0.27	0.37	
F	.007	.011	0.17	0.27	
G	.000	.002	.000	.050	
Н	.017	.020	0.43	0.50	
J	.003	.006	.080	.150	

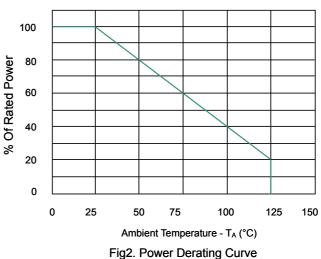
www.mccsemi.com



Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _t = 1mA	5.6			V
Reverse Leakage Current	I _R	V _{RWM} = 5V			1	μA
Clamping Voltage	Vc	I_{PP} = 1A, t_P = 8/20µs pin1 to pin2			13.5	V
Clamping Voltage	Vc	I_{PP} = 5A, t _P = 8/20µs pin1to pin2			23.0	V
Clamping Voltage	Vc	I_{PP} = 5A, t _P = 8/20µs pin1or pin2 to pin3			20.0	V
Junction Capacitance	Cj	V _R =0V, f = 1MHz Pin1 to Pin2		1.4	2	pF
Junction Capacitance	Cj	V_R =0V f = 1MHz pin1or pin2 to pin3		2.8	3.5	pF

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)







(Pin 1 to Pin 2)

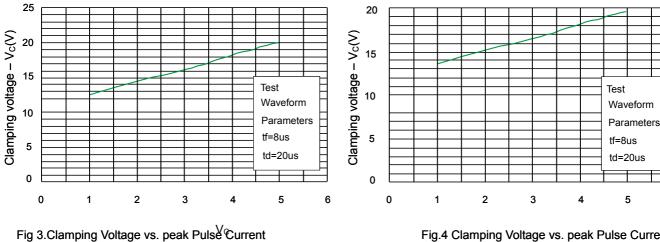


Fig.4 Clamping Voltage vs. peak Pulse Current (Pin 1 or Pin 2 to Pin 3)

www.mccsemi.com

5

6



Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

www.mccsemi.com