

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

Phone: (818) 701-4933 Fax: (818) 701-4939

SD05

Features

- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Low clamping voltage
- Low leakage
- Protects one power or I/O port
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

5.0Volts ESD Protection Devices

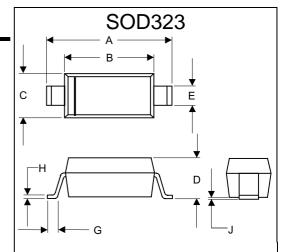
Maximum Ratings

• Operating Junction : -55°C to +125°C

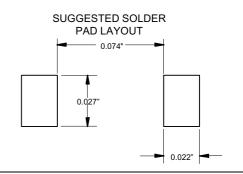
• StorageTemperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		± 30	10.7
	Contact		± 30	KV
IEC 61000-4-5 (8/20us)		lpp	40	Α
Peak Power Dissipation (8/20us)		P_{pk}	500	W

Marking:5U/305



DIMENSIONS					
DIM	INCHES		N	NOTE	
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	





Electrical Characteristics (T_A=25°C unless otherwise specified)

SD05						
Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5	V	
Breakdown Voltage	VBR	6			V	IT = 1mA
Reverse Leakage Current	I _R			1	μA	VRWM = 5V
Forward Voltage	VF		0.8	1.2	V	IF = 10mA
Clamping Voltage	Vc			9.5	V	IPP = 5A (8 x 20µs pulse)
Clamping Voltage	Vc			12.5	V	IPP = 40A (8 x 20µs pulse)
Peak Pulse Current	Ipp			40	Α	tp = 8/20µs
Junction Capacitance	CJ			350	pF	VR = 0V, f = 1MHz



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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