

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA91311

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SD05C

Features

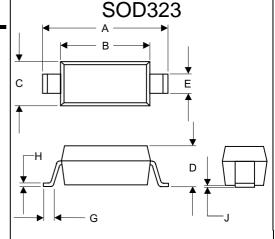
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Low clamping voltage
- Low leakage
- Protects one power or I/O port
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

5.0Volts ESD Protection Devices

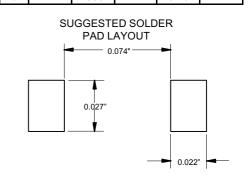
Maximum Ratings

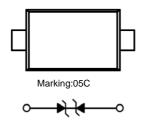
• Operating Junction &StorageTemperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	10.7
	Contact		±8	KV
IEC 61000-4-5 (8/20us)		I PP	30	Α
Peak Power Dissipation (8/20us)		P_{pk}	350	W



DIMENSIONS					
DIM	INCHES		MM		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	
Ε	.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 noted)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse stand-off voltage	V_{RWM}				5	V
Reverse Breakdown voltage	V_{BR}	I _t = 1mA	6		8	V
Reverse Leakage Current	I _R	V _{RWM} = 5V T=25 ℃			1	μA
Clamping Voltage	Vc	$I_{PP} = 1A$ $t_P = 8/20 \mu s$		9.8		V
		$I_{PP} = 24A$ $t_P = 8/20 \mu s$		13.5		V
Junction Capacitance	C _j	V _R =0V f = 1MHz		125		pF

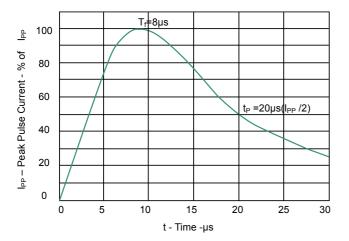


Fig 1.Pulse Waveform

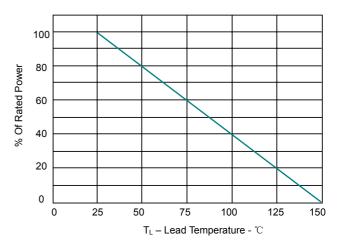


Fig 2.Power Derating Curve



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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