



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



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SD05

5.0Volts
ESD Protection
Devices

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

Maximum Ratings

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

Table with 5 columns: Parameter, Symbol, Limits, unit. Rows include IEC61000-4-2(ESD) Air Contact, IEC 61000-4-5 (8/20us), and Peak Power Dissipation (8/20us).

Marking:5U/305

SOD323
Technical drawing showing top and side views of the component with dimensions A through J. Includes a DIMENSIONS table and a SUGGESTED SOLDER PAD LAYOUT diagram.

**Electrical Characteristics ( $T_A=25^\circ\text{C}$  unless otherwise specified)**

SD05						
Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	$V_{RWM}$			5	V	
Breakdown Voltage	$V_{BR}$	6			V	$I_T = 1\text{mA}$
Reverse Leakage Current	$I_R$			1	$\mu\text{A}$	$V_{RWM} = 5\text{V}$
Forward Voltage	$V_F$		0.8	1.2	V	$I_F = 10\text{mA}$
Clamping Voltage	$V_C$			9.5	V	$I_{PP} = 5\text{A}$ (8 x 20 $\mu\text{s}$ pulse)
Clamping Voltage	$V_C$			12.5	V	$I_{PP} = 40\text{A}$ (8 x 20 $\mu\text{s}$ pulse)
Peak Pulse Current	$I_{pp}$			40	A	$t_p = 8/20\mu\text{s}$
Junction Capacitance	$C_J$			350	pF	$V_R = 0\text{V}$ , $f = 1\text{MHz}$



Micro Commercial Components

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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