

unit : mm

Features

- Transient protection for data lines to IEC61000-4-2(ESD) 15KV(air), 8KV(contact)
- Small package for use in portable electronics
- Low operating and clamping voltage

Applications

- Cellular Handsets and Accessories
- Microprocessor based equipment
- Notebooks, Desktops and Servers

Ordering Information

Type NO.	Marking	Package Code	
SDT05SF	S05	SOT-23F	

Outline Dimensions

2.30~2.50 $1.50 \sim 1.70$ 3 1 2.80~3.00 1.90 Typ. 3 0.45 Max. 2 1 2 $0.80 \sim 1.00$ **PIN Connections** 1. Cathode 0.10 Max. 0.20 Max. 2. Cathode 3. Anode

SDT05SF

Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)	
Characteristic	Symbol	Rating	Unit	
Peak pulse power (tp = $8/20 \ \mu s$)	P _{PK}	200	W	
Peak pulse current (tp = $8/20 \ \mu$ s)	I _{PP}	12	А	
Lead soldering temperature	TL	260 (10sec.)	°C	
Junction temperature	Tj	125	°C	
Storage temperature range	T _{stg}	-55 ~ 150	°C	

Electrical Characteristics

(Ta=25°C) **Test Condition** Symbol Characteristic Min. Typ. Max. Unit $I_R=1mA$ 7.5 Reverse breakdown voltage 6.0 V_{BR} -V μA Reverse leakage current \mathbf{I}_{R} $V_R = 5V$ -5 - I_{PP} =1A, tp=8/20 μ s 9.5 V V_{C(1)} _ _ Clamping voltage $I_{\text{PP}}{=}12\text{A}\text{, tp}{=}8/20~\mu\text{s}$ 5.0 12.5 V -V_{C(2)} Between I/O pins and GND CT 150 Tatal capacitance _ pF $V_R = 0V$, f=1MHz

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Electrical Characteristics Curves



SDT05SF

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