

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
- Protects five I/O lines

Applications

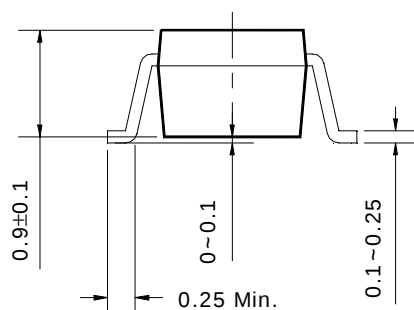
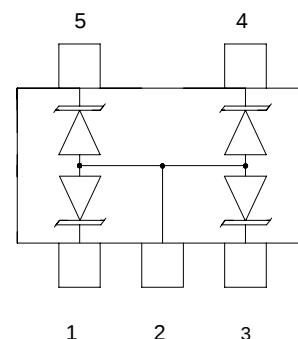
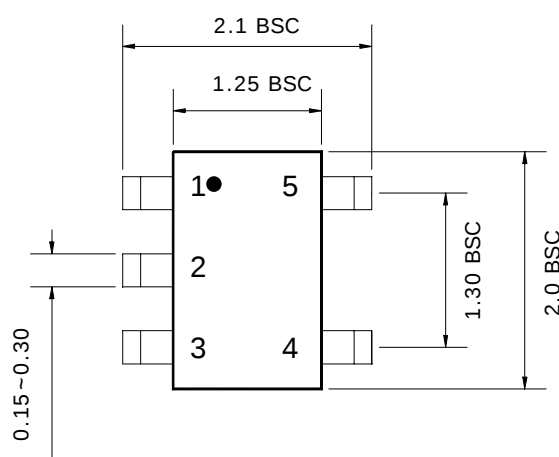
- Cell phone Handsets and Accessories
- Microprocessor based equipment
- Notebooks, Desktops and Servers

Ordering Information

Type NO.	Marking	Package Code
SDT05H	H05	SOT-353

Outline Dimensions

unit : mm



PIN Connections

1. Cathode
2. Anode
3. Cathode
4. Cathode
5. Cathode

Absolute maximum ratings

Ta=25°C

Characteristic	Symbol	Ratings	Unit
Peak pulse power (tp = 8/20 μ s)	P _{PK}	200	W
Peak pulse current (tp = 8/20 μ s)	I _{PP}	12	A
Peak forward voltage(IF=1A, tp = 8/20 μ s)	V _{FP}	1.5	V
Lead soldering temperature	T _L	260 (10sec.)	°C
Operating temperature	T _J	-55 ~ 125	°C
Storage temperature	T _{stg}	-55 ~ 150	°C

Electrical Characteristics

Ta=25°C

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse stand-off voltage	V _{RWM}				5	V
Reverse breakdown voltage	V _{BR}	I _t = 1mA	6			V
Reverse leakage current	I _R	V _{RWM} = 5V , T = 25			10	μ A
Clamping voltage	V _C	I _{PP} = 1A, tp = 8/20 μ s			9.5	V
Clamping voltage	V _C	I _{PP} = 12A, tp = 8/20 μ s			12.5	V
Junction capacitance	C _J	Between I/O pins and Gnd V _R = 0V, f = 1MHz			150	pF

Electrical Characteristics Curves

Fig. 1 None-repetitive peak pulse power vs pulse time

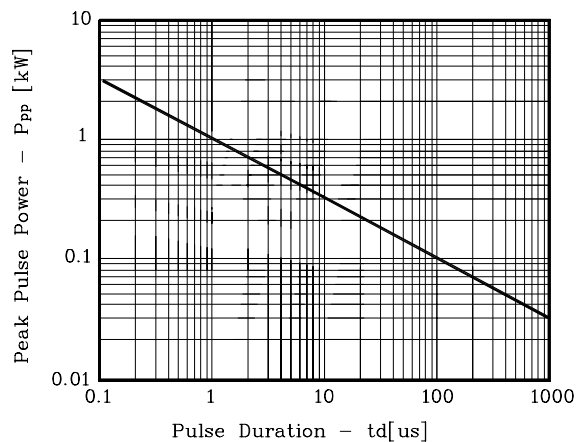


Fig. 2 Power derating curve

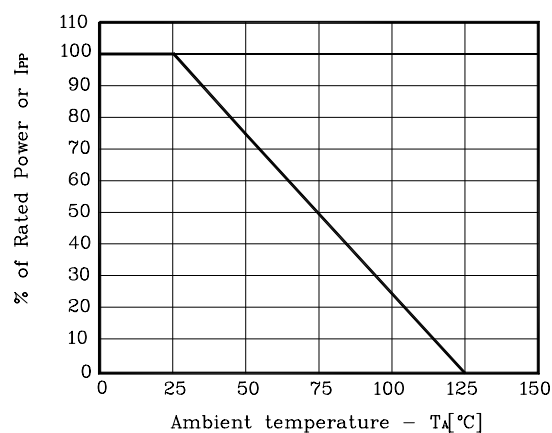


Fig. 3 Pulse Waveform

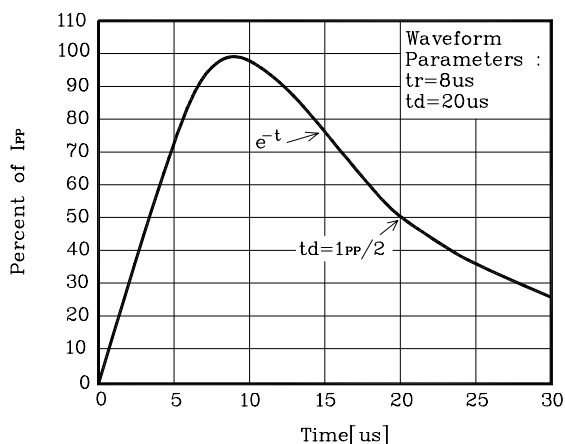


Fig. 4 Clamping voltage vs peak pulse current

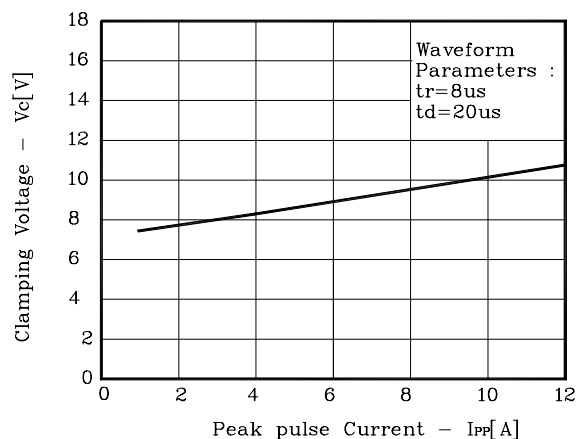


Fig. 5 Capacitance vs Reverse voltage

