



DESCRIPTION

The SM05C is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

This series has been specifically designed to protect sensitive components which are connected to power data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

FEATURES

- →IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦IEC61000-4-4 (EFT) 40A (5/50ns)
- ♦350 Watts Peak Pulse Power per (tp=8/20µs)
- ♦Protects two bidirectional lines
- ♦Low clamping voltage
- ♦Low leakage current

MACHANICAL DATA

- ♦SOT-23 package
- ♦Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦High temperature soldering guaranted:260°C /10s
- ♦Reel size: 7 inch
- ♦MSL 1

ORDERING INFORMATION

Device:SM05CPackage: SOT-23

♦ Material: Halogen free

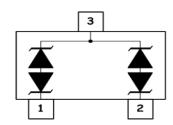
♦ Packing: Tape & Reel

♦ Quantity per reel: 3,000pcs

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- → Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- ♦Notebooks, Desktops, and Servers
- ♦ Portable Instrumentation
- ♦ Networking and Telecom
- ♦ Serial and Parallel Ports.
- ♦Peripherals

PIN CONFIGURATION



PACKAGE OUTLINE



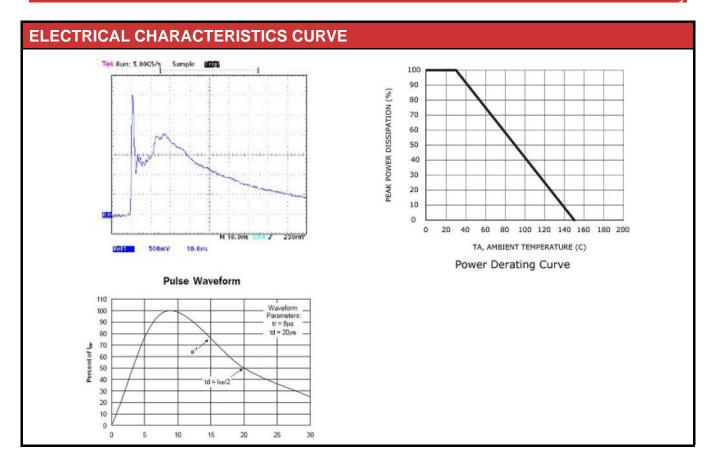




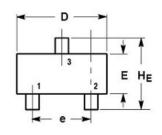
ABSOLUTE MAXIMUM RATING						
Symbol	Parameter	Value	Units			
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV			
P _{PP}	Peak Pulse Power (8/20µs)	350	W			
T _{OPT}	Operating Temperature	-55/+150	°C			
T _{STG}	Storage Temperature	-55/+150	°C			
T _L	Lead Soldering Temperature	260 (10 sec.)	°C			

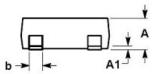
ELECTRIC	ELECTRICAL CHARACTERISTICS (Tamb=25°C)								
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (V) (max.)	(\ (max.)	/c /) (@A)	I _R (μΑ) (max.)	C _J (pF) (max.)
SM05C	C05	5.0	6.0	1	9.8	18.0	17	10	200



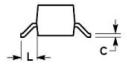


SOT-23 PACKAGE OUTLINE DIMENSIONS





	M	ILLIMETE	RS	INCHES			
DIM	MIN	NOM	MAX	MIN	NOM	MAX	
Α	0.89	1.00	1.11	0.035	0.040	0.044	
A1	0.01	0.06	0.10	0.001	0.002	0.004	
b	0.37	0.44	0.50	0.015	0.018	0.020	
С	0.09	0.13	0.18	0.003	0.005	0.007	
D	2.80	2.90	3.04	0.110	0.114	0.120	
E	1.20	1.30	1.40	0.047	0.051	0.055	
е	1.78	1.90	2.04	0.070	0.075	0.081	
L	0.35	0.54	0.69	0.014	0.021	0.029	
HE	2.10	2.40	2.64	0.083	0.094	0.104	



单击下面可查看定价,库存,交付和生命周期等信息

<u>>>KUU(永裕泰)</u>