



DESCRIPTION

The KSMxxC 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
- ♦ Working voltages: 3.3V to 36V
- ♦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

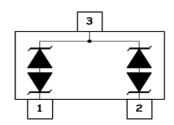
→Package: SOT-23→Material: Halogen free→Packing: Tape & Reel

♦ 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







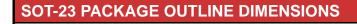
ABSOLUTE MAXIMUM RATING					
Symbol	Parameter	Value	Units		
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV		
P _{PP}	Peak Pulse Power (8/20μs)	350	W		
T _{OPT}	Operating Temperature	-55/+150	°C		
T _{STG}	Storage Temperature	-55/+150	°C		
T _L	Lead Soldering Temperature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

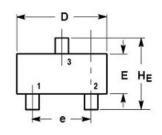
ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (V) (max.)		/c /) (@A)	I _R (μΑ) (max.)	C _J (pF) (max.)
KSM03C	C03	3.3	4.0	1	7.5	16.0	20	40	450
KSM05C	C05	5.0	6.0	1	9.8	18.0	17	10	200
KSM08C	C08	8.0	8.5	1	13.4	24.0	15	2	120
KSM12C	C12	12.0	13.3	1	19.0	32.0	11	1	75
KSM15C	C15	15.0	16.7	1	24.0	38.0	10	1	68
KSM18C	C18	18.0	20.0	1	29.0	45.0	9	1	57
KSM20C	C20	20.0	22.3	1	35.0	50.0	8	1	52
KSM24C	C24	24.0	26.7	1	43.0	52.0	7	1	50
KSM36C	C36	36.0	40.0	1	60.0	75.0	4.5	1	35

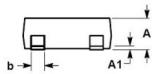




ELECTRICAL CHARACTERISTICS CURVE Tek Run: 5.00GS/s Sample 100% PEAK POWER DISSIPATION (%) 20 40 80 100 120 140 160 180 200 M 10.0ms Clin J 250mV TA, AMBIENT TEMPERATURE (C) Power Derating Curve **Pulse Waveform** Waveform _ Parameters: tr = 8µs _ td = 20µs _







	MILLIMETERS			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	

