

DESCRIPTION

The KSM Series 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.

KSM Series has beens pecifically designed 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).

ORDERING INFORMATION

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

♦ Quantity per reel: 3,000pcs

FEATURES

- \Leftrightarrow 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 one bidirectional line or two unidirectional lines
- ♦Low clamping voltage
- ♦Working voltages : 3.3V to 36V
- ♦Low leakage current

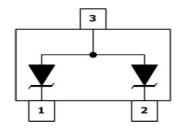
MACHANICAL DATA

- ♦SOT-23 package
- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- \diamond High temperature soldering guaranted:260 $^{\circ}$ C /10s
- ♦Reel size: 7 inch
- ♦MSL 1

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)	±15	kV					
	ESD per IEC 61000-4-2 (Contact)	±8						
P _{PP}	Peak Pulse Power (8/20μs)	350	W					
T _{OPT}	Operating Temperature	-55/+150	°C					
T _{STG}	Storage Temperature	-55/+150	°C					
TL	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.)	V _C (V) (max.) (@A)		I _R (μΑ) (max.)	C _J (pF) (max.)				
KSM03	M03	3.3	4	1	7.0	14	20	40	450				
KSM05	M05	5	6	1	9.8	18	17	10	300				
KSM08	M08	8	8.5	1	13.4	24	15	2	240				
KSM12	M12	12	13.3	1	19	32	11	1	130				
KSM15	M15	15	16.7	1	24	38	10	1	120				
KSM18	M18	18	20	1	29	45	9	1	100				
KSM20	M20	20	22.3	1	35	50	8	1	90				
KSM24	M24	24	26.7	1	43	52	7	1	80				
KSM36	M36	36	40	1	60	75	5	1	60				

