

DESCRIPTION

The KSD Series is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, business machines, communication printers, 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).

ORDERING INFORMATION

- ♦Package: SOD-323
- ♦ Material: Halogen free
- ♦ Packing: Tape & Reel
- ♦Quantity per reel: 3,000pcs

FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦ Protects one I/O line (unidirectional)
- ♦Low clamping voltage
- \diamond Working voltages : 3.3V to 36V
- ♦Low leakage current

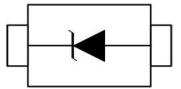
MACHANICAL DATA

- ♦SOD-323 package
- ♦ Flammability Rating: UL 94V-0
- ♦Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260°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
- \diamond Portable Instrumentation
- ♦Networking and Telecom
- ♦ Serial and Parallel Ports
- ♦Peripherals

PIN CONFIGURATION



PACKAGE OUTLINE



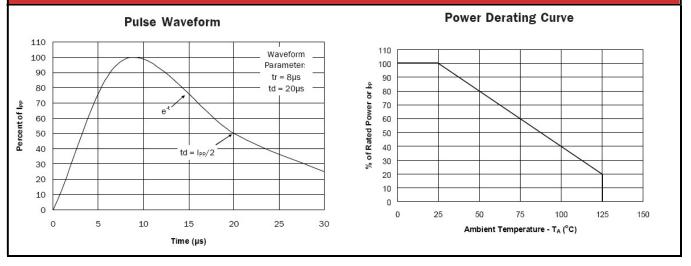


ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV				
P _{PP}	Peak Pulse Power (8/20µs)	350	W				
Т _{ОРТ}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
TL	Lead Soldering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

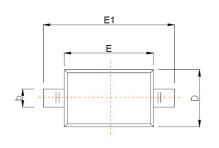
ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V)	V _B (V)	l _⊤ (mA)	V _c @1A (V)	V (\		Ι _R (μΑ)	С _т (pF)
NOWBER		(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
KSD03	03W	3.3	4	1	6.5	14	20	40	450
KSD05	05W	5	6	1	9.8	18	17	10	300
KSD08	08W	8	8.5	1	10.5	24	15	1	240
KSD12	12W	12	13.3	1	19	32	11	1	130
KSD15	15W	15	16.7	1	24	38	10	1	120
KSD18	18W	18	20.0	1	29	45	9	1	100
KSD20	20W	20	22.3	1	35	50	8	1	90
KSD24	24W	24	26.7	1	43	52	7	1	80
KSD36	36W	36	40	1	60	75	5	1	60

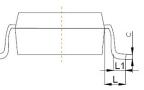


ELECTRICAL CHARACTERISTICS CURVE



SOD-323 PACKAGE OUTLINE DIMENSIONS





Symbol	Dimensions In Millimeters			
Symbol	Min	Max		
A		1.00		
A1	0.000	0.100		
A2	0.800	0.900		
b	0.250	0.350		
с	0.080	0.150		
D	1.200	1.400		
E	1.600	1.800		
E1	2.500	2.700		
е	1.800	2.040		
L	0.475 REF			
L1	0.250	0.400		
θ	0°	8°		

