

DESCRIPTION

KSDxxC 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).

ORDERING INFORMATION

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

FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- $\diamond350$ Watts Peak Pulse Power per (tp=8/20 \mu s)
- ♦Protects one I/O line (bidirectional)
- ♦Low clamping voltage
- ♦Low leakage current

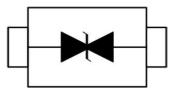
MACHANICAL DATA

- ♦SOD-323 package
- ♦Flammability Rating: UL 94V-0
- ♦Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260°C/10s
- ♦Reel size: 7 inch

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



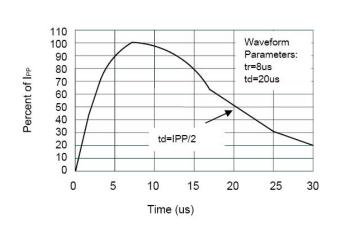


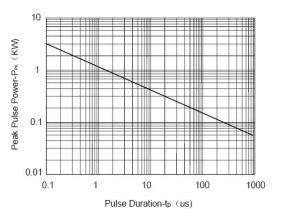
ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV				
P _{PP}	Peak Pulse Power (8/20µs)	350	W				
Т _{ОРТ}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
TL	Lead Soldering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

ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART	DEVICE	V _{RWM} (V)	V _B (V)	I _T (mA)	V _c @1A	V		ا _R (۱۸۵)	C _T (pF)
NUMBER	MARKING	(v) (max.)	(v) (min.)	(1174)	(V) (max.)	(∖ (max.)	(@A)	(µA) (max.)	(max.)
KSD03C	2A	3.3	4.0	1	7.5	10.5	20	40	450
KSD05C	2B	5.0	6.0	1	9.8	18.0	17	10	200
KSD08C	2C	8.0	8.5	1	13.4	24.0	15	2	120
KSD12C	2D	12.0	13.3	1	19.0	32.0	11	1	75
KSD15C	2J	15.0	16.7	1	24.0	38.0	10	1	68
KSD18C	2К	18.0	20.0	1	29.0	45.0	9	1	57
KSD24C	2H	24.0	26.7	1	43.0	52.0	7	1	50
KSD36C	2N	36.0	40.0	1	60.0	75.0	5	1	35



ELECTRICAL CHARACTERISTICS CURVE





Pulse Waveform

Non-Repetitive Peak Pulse Power vs. Pulse Time

2

1.8 1.6

1.4 1.2

1.0 0.8

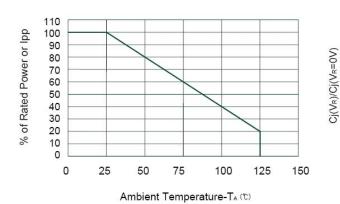
0.6 0.4 0.2

0

-25

-20

-15



Power Derating Curve



-10

Voltage-VR(V)

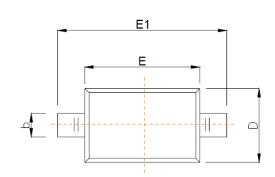
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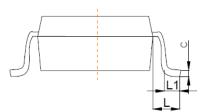
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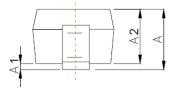
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SOD-323 PACKAGE OUTLINE DIMENSIONS







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°		

