

KSD05T1G

DESCRIPTION

KSD05T1G 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
- ♦ Packing: Tape & Reel
- ♦Quantity per reel: 3,000pcs

FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)

- ♦Protects one I/O line (unidirectional)
- ♦Low clamping voltage
- \diamond Working voltages : 3.3V to 36V
- ♦Low leakage current

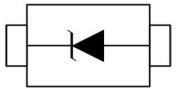
MACHANICAL DATA

- ♦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
- \diamond Networking and Telecom
- ♦ Serial and Parallel Ports
- ♦Peripherals

PIN CONFIGURATION



PACKAGE OUTLINE





KSD05T1G Unidirectional TVS Diodes

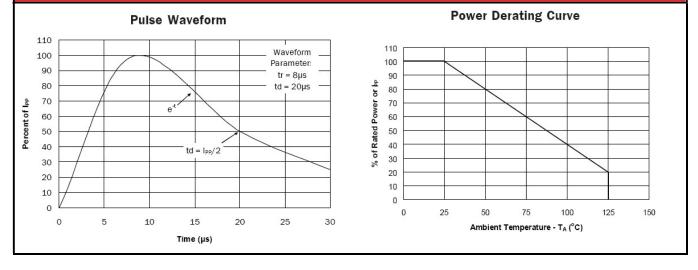
Symbol	Parameter	Value	Units
\mathbf{V}_{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV
P_PP	Peak Pulse Power (8/20µs)	350	W
T _{OPT}	Operating Temperature	-55/+150	°C
T _{STG} Storage Temperature		-55/+150	°C
TL	Lead Soldering Temperature	260 (10 sec.)	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C)								
DADT	V _{RWM}	V _B	Ι _Τ	V _c @1A	V _C		I _R	CT
PART NUMBER	(V)	(V)	(mA)	(V)	(V)		(µA)	(pF)
NOMBEIN	(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
KSD05T1G	5	6	1	9.8	18	17	10	300

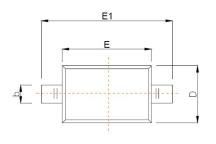


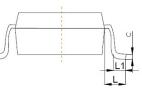
KSD05T1G Unidirectional TVS Diodes

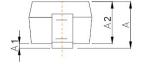
ELECTRICAL CHARACTERISTICS CURVE



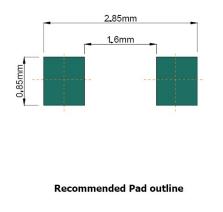
SOD-323 PACKAGE OUTLINE DIMENSIONS







Sumbol	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°			
2.					



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