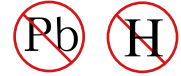




Unidirectional TVS Diode for ESD Protection



Features

- IEC61000-4-2 Level 4 ESD Protection
- Protects one directional I/O line
- Low clamping voltage
- Working voltages : 2.5V,3.3V, 5V,6V,7V,12V,15V
- Low leakage current

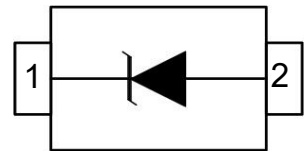
Main Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Peripherals
- Pagers

Mahanical Data

- Flammability Rating: UL 94V-0
- High temperature soldering guaranted:260°C/10s

SOD-523FL



Ordering Information

Device	Qty per Reel	Reel Size
YSESD5ZxxT	3000	7 Inch

ABSOLUTE MAXIMUM RATING

Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±30	kV
	ESD per IEC 61000-4-2 (Contact)	±22	
ESD	ESD Voltage per human body model	16	kV
	ESD Voltage per machine model	400	V
P _D	Total Power Dissipation on FR-5 Board (Note 1) @ Ta=25°C	150	mW
T _J , T _{STG}	Junction and Storage Temperature	-55/+150	°C
T _L	Lead Solder Temperature – Maximum (10 Second Duration)	260	°C

These ratings are limiting values above which the serviceability of the diode may be impaired

Note 1. FR-5=1.0x0.75x0.62 in.

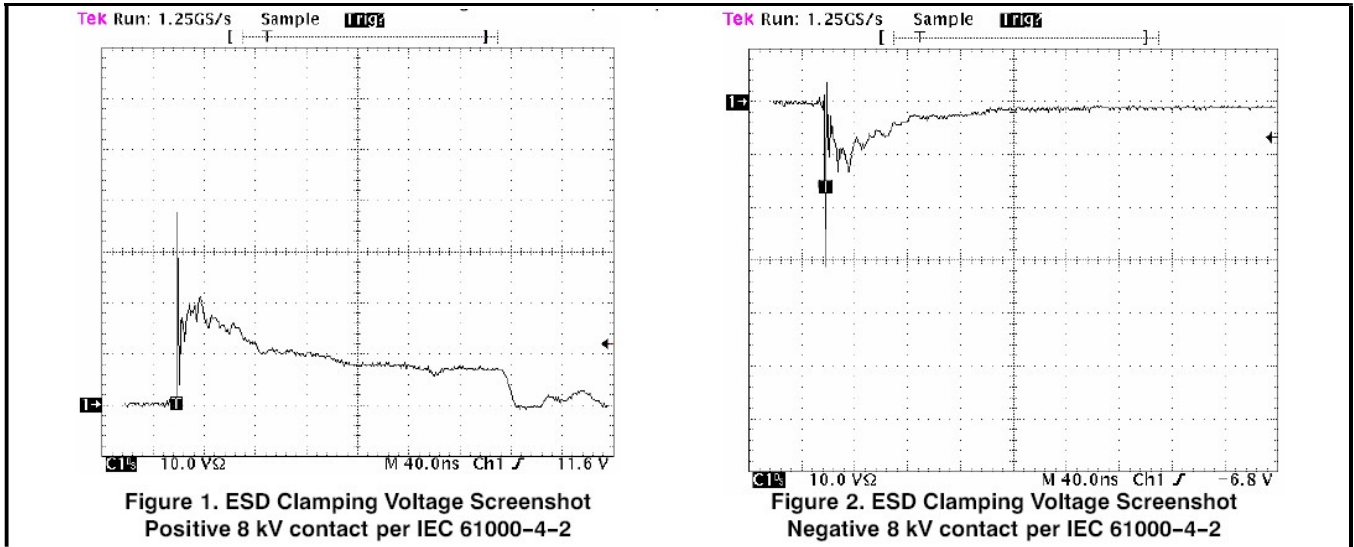
DEVICE CHARACTERISTICS

YSESD5ZxxT Series

ELECTRICAL CHARACTERISTICS (Tamb=25°C)

PART NUMBER	DEVICE MARKING	V _{RWM}	I _R	V _B	I _T	V _C		V _C		P _{PK}	C _J
		(V)	(μA)	(V)	(mA)	(V)	(V)	(V)	(V)	(W)	(pF)
		Max	Max	Min		Max	@A	Max	@A	Max	Max
YSESD5Z2V5T	ZD + code	2.5	6.0	4.0	1	9.0	5.0	11.5	9.0	104	145
YSESD5Z3V3T	ZE + code	3.3	0.90	5.0	1	10.0	5.0	14.0	7.5	105	105
YSESD5Z5V0T	ZF + code	5.0	0.08	6.2	1	11.6	5.0	15.0	7.0	105	80
YSESD5Z6V0T	ZG + code	6.0	0.05	6.8	1	13.5	5.0	17.5	6.0	105	70
YSESD5Z7V0T	ZH + code	7.0	0.03	7.5	1	14.0	5.0	18.0	6.0	108	65
YSESD5Z12VT	ZM + code	12.0	0.03	14.1	1	20.0	1.0	26.0	4.0	104	45
YSESD5Z15VT	ZN + code	15.0	0.50	16.0	1	23.0	1.0	30.0	4.0	120	28

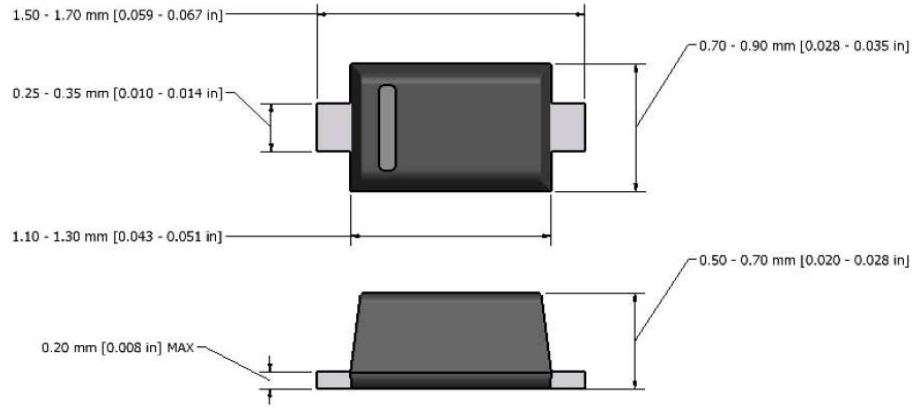
ELECTRICAL CHARACTERISTICS CURVE



PACKAGE OUTLINE & DIMENSIONS

YESD5ZxxT Series

SOD-523FL PACKAGE OUTLINE DIMENSIONS



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

Recommended Pad outline

