

ESD5Z5.0T1G Transient Voltage Suppressors

DESCRIPTION

The ESD5Z5.0T1G designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, portable devices, digital cameras, power supplies and many other portable applications.

ORDERING INFORMATION

- ♦Package: SOD-523
- ♦Material: Halogen free
- ♦Packing: Tape & Reel
- ♦Quantity per reel: 3,000pcs

FEATURES

- ♦IEC61000-4-2 Level 4 ESD Protection
- ♦Protects one directional I/O line
- ♦Low clamping voltage
- ♦Low leakage current

MACHANICAL DATA

- ♦ SOD-523 package
- ♦ Flammability Rating: UL 94V-0
- ♦Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260°C/10s
- \diamond Reel size: 7 inch

APPLICATIONS

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

♦Pagers

PACKAGE OUTLINE

PIN CONFIGURATION





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= $25^{\circ}C$	150	mW						
$T_{J,}T_{STG}$	Junction and Storage Temperature	-55/+150	°C						
TL	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.



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ELECTRICAL CHARACTERISTICS (Tamb=25°C)													
PART NUMBER	DEVICE MARKING	V_{RWM}	I _R	VB	Ι _Τ	V _C		Vc		P _{PK}	CJ		
		(V)	(µA)	(V)	(mA)	(V)		(V)		(W)	(pF)		
		Max	Max	Min		Max	@A	Max	@A	Max	Max		
ESD5Z5.0T1G	ZF + code	5.0	0.08	6.2	1	11.6	5.0	15.0	7.0	105	80		

ELECTRICAL CHARACTERISTICS CURVE



