

#### **DESCRIPTION**

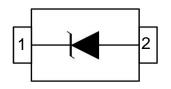
The TT 0711 ND X Series isdesigned to protect voltage sensitive components ESD and transient voltage events . Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones , portable devices , cameras, power supplies and many other portable applications.

#### ORDERING INFORMATION

Device:TT0711NDXPackage: SOD-523Material: Halogen freePacking: Tape & Reel

♦ Quantity per reel: 3,000pcs

# **PIN CONFIGURATION**



#### **FEATURES**

- ♦IEC61000-4-2 Level 4 ESD Protection
- ♦Protects one directional I/O line
- ♦Low clamping voltage
- ♦ Working voltages : 7V
- ♦Low leakage current

### **MACHANICAL DATA**

- ♦SOD-523 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
- ♦ Peripherals
- ♦Pagers

#### PACKAGE OUTLINE



ABSOLUTE MAXIMUM RATING									
Symbol	Parameter	Value	Units						
V <sub>ESD</sub>	ESD per IEC 61000-4-2 (Air)	±30	L//						
	ESD per IEC 61000-4-2 (Contact)	±30	kV						
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.



ELECTRICAL CHARACTERISTICS (Tamb=25°C)													
PART	DEVICE MARKING	$V_{RWM}$	I <sub>R</sub>	$V_B$	Ι <sub>Τ</sub>	V <sub>C</sub> @5A	V	С	$P_{PK}$	CJ			
NUMBER		(V)	(µA)	(V)	(mA)	(V)	(V)		(W)	(pF)			
		(max.)	(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(typ.)			
TT0711NDX	ZH	7.0	0.5	7.5	1	13.5	17.0	9.0	200	65			

