

## for Latch up Protection

### Applications

- ◆ Cellular Handsets and Accessories
- ◆ Cordless Phones
- ◆ Personal Digital Assistants (PDA's)
- ◆ Notebooks and Handhelds
- ◆ Portable Instrumentation
- ◆ Peripherals
- ◆ MP3 Players
- ◆ Industrial Application

### IEC Compatibility

- ◆ IEC61000-4-2 (ESD)  $\pm 30\text{kV}$  (air),  $\pm 30\text{kV}$  (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (SURGE) 4A (8/20 $\mu\text{s}$ )

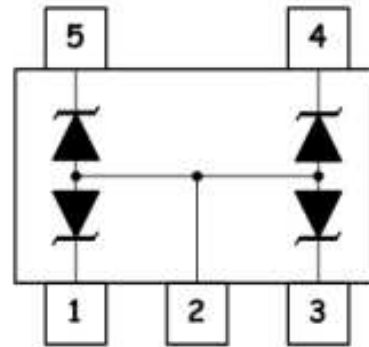
### Features

- ◆ 100 Watts Peak Pulse Power per Line ( $t_p=8/20\mu\text{s}$ )
- ◆ Protects Four I/O Lines
- ◆ Low Clamping Voltage
- ◆ Working Voltages : 3.3V, 5.0V, 12V
- ◆ Low Leakage Current

### Mechanical Characteristics

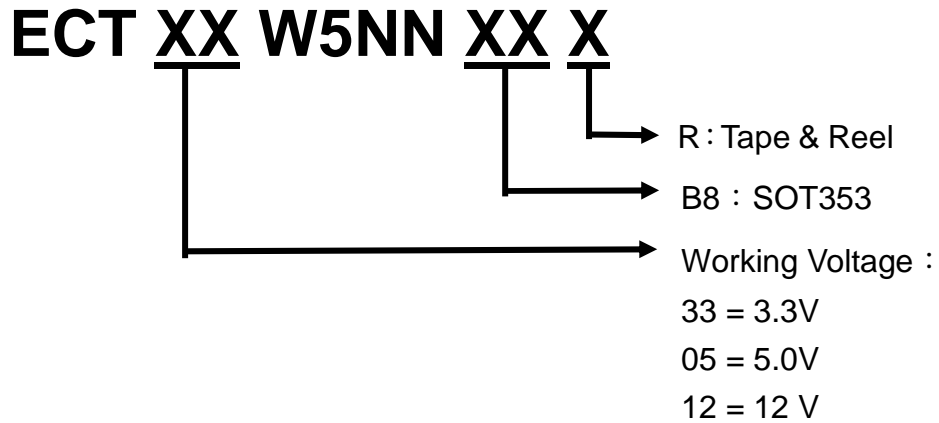
- ◆ SOT-353 Package
- ◆ Molding Compound Flammability Rating : UL 94V-0
- ◆ Weight 6.0 Milligrams (Approximate)
- ◆ Quantity Per Reel : 3,000pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free

### Pin Configuration



for Latch up Protection

Ordering Information

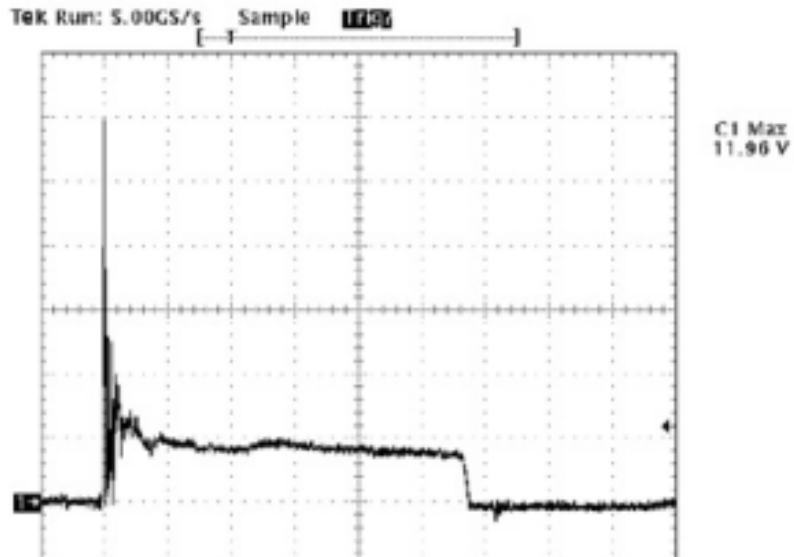


Device Characteristics

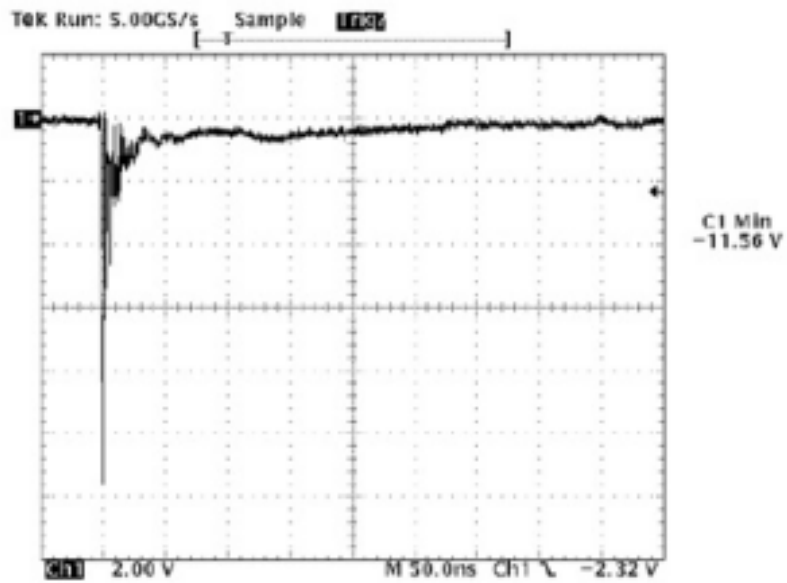
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20µs waveform)	P <sub>PP</sub>	100	Watts
Lead Soldering Temperature	T <sub>L</sub>	260 (10 sec.)	°C
Operating Temperature Range	T <sub>J</sub>	-55 ~ 150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V <sub>RWM</sub> (V) (max.)	V <sub>B</sub> (V) (min.)	I <sub>T</sub> (mA)	V <sub>C</sub> @1A (max.)	V <sub>C</sub> (max.) (@A)		I <sub>R</sub> (µA) (max.)	C <sub>T</sub> (pF) (typ.)
ECT33W5NNB8R	WB	3.0	4.5	1	8.0	15.3	4	5	40
ECT05W5NNB8R	WE	5	6	1	9.8	18.5	3	2	30
ECT12W5NNB8R	WH	12	13.3	1	17	21.0	2	1	25

ESD Clamping  
(8kV Contact Per IEC 61000-4-2)

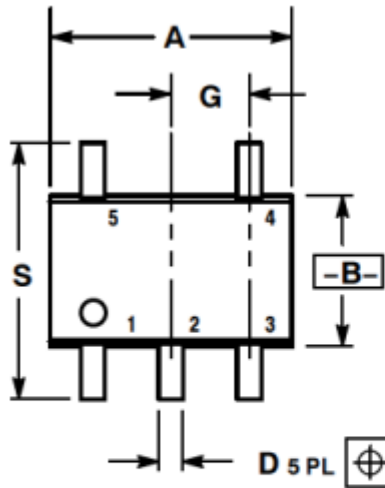


ESD Clamping  
(-8kV Contact Per IEC 61000-4-2)

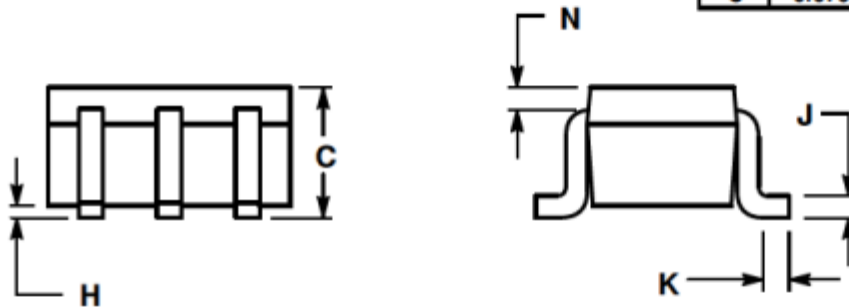


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**SOT-353 Package Outline & Dimensions**



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20



**\* SOLDERING FOOTPRINT**

