

#### **Features**

- Ultra low leakage: nA level
- Low operating voltage: 5V
- Low clamping voltage
- Complies with following standards:
  - IEC 61000-4-2 (ESD) immunity test

Air discharge: ±30kV

Contact discharge: ±30kV – IEC61000-4-4 (EFT) 40A (5/50ns)

♦ ROHS Compliant

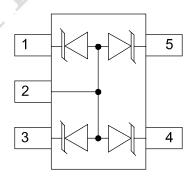
### **Mechanical Characteristics**

- ◆ Package: SOT353(SC70-5)
- ◆ Lead Finish: Matte Tin
- Case Material: "Green" Molding Compound.
- ◆ UL Flammability Classification Rating 94V-0
- ♦ Moisture Sensitivity: Level 3 per J-STD-020
- Shipping Qty :3000pcs/7InchTape & Reel

## **Applications**

- ◆ Cell phone Handsets and Accessories
- ◆ Microprocessor Based Equipment
- Personal Digital Assistants (PDA's) and Pagers
- Desktops PC and Servers
- Notebook, Laptop, and Palmtop Computers
- Portable Instrumentation
- Peripherals

### **Dimensions and Pin Configuration**



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#### Absolute Maximum Ratings (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs) (Vcc-GND)	$P_{pk}$	150	W
ESD per IEC61000-4-2 (Air)		±30	LA /
ESD per IEC61000-4-2 (Contact)	$V_{ESD}$	±30	kV
Operating Temperature Range	TJ	-55 to +125	$^{\circ}$ C
Storage Temperature Range	T <sub>stg</sub>	-55 to +150	$^{\circ}$ C

## Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	$V_{RWM}$			5	٧	
Breakdown Voltage	$V_{BR}$	6		9	<b>\</b>	I <sub>T</sub> =1mA
Leakage Current	I <sub>Leak</sub>			100	nA	V <sub>RWM</sub> =5V
Clamping Voltage	V <sub>C</sub>			11	>	I <sub>PP</sub> =4.5A,Tp=8/20μs
Clamping Voltage	Vc	, Y		14	>	I <sub>PP</sub> =10A,Tp=8/20μs
Junction Capacitance (I/O to GND)	Сл	7	60	90	pF	V <sub>R</sub> =0V, f=1MHz,
Junction Capacitance (I/O to I/O)	С		30		pF	V <sub>R</sub> =0V, f=1MHz,



### Typical Performance Characteristics (T<sub>A</sub>=25°C unless otherwise Specified)

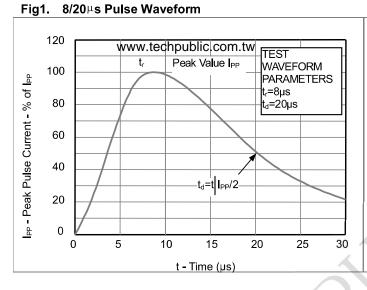
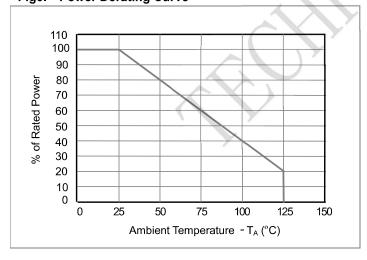
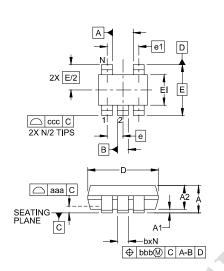


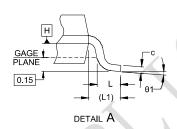
Fig3. Power Derating Curve

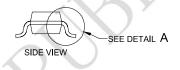




# **Outline Drawing - SOT-353**







DIMENSIONS								
DIM	INCHES			MILLIMETERS				
	MIN	NOM	MAX	MIN	NOM	MAX		
Α	-	-	.043	-	-	1.10		
A1	.000	-	.004	0.00	-	0.10		
A2	.028	.035	.039	0.70	0.90	1.00		
b	.006	-	.012	0.15	-	0.30		
С	.003	-	.009	0.08	-	0.22		
О	.075	.079	.083	1.90	2.00	2.10		
E1	.045	.049	.053	1.15	1.25	1.35		
Е	.083 BSC			2.10 BSC				
е	.026 BSC			0.65 BSC				
e1	.051			1.30 BSC				
L	.010	.014	.018	0.26	0.36	0.46		
L1	(.017)			(0.42)				
N	5			5				
θ1	0°	-	8°	0°	-	8°		
aaa	.004			0.10				
bbb	.004			0.10				
ccc	.012			0.30				