

APPLICATIONS

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

IEC COMPATIBILITY

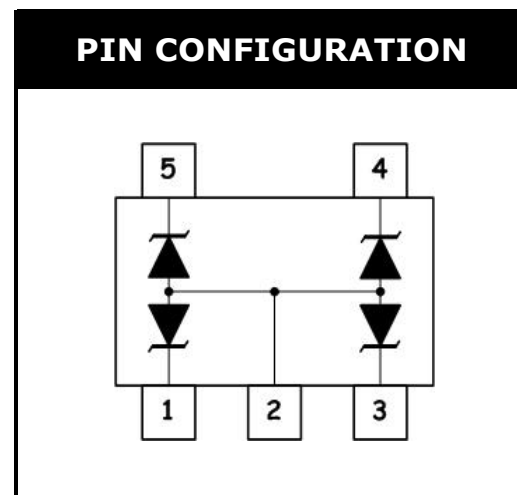
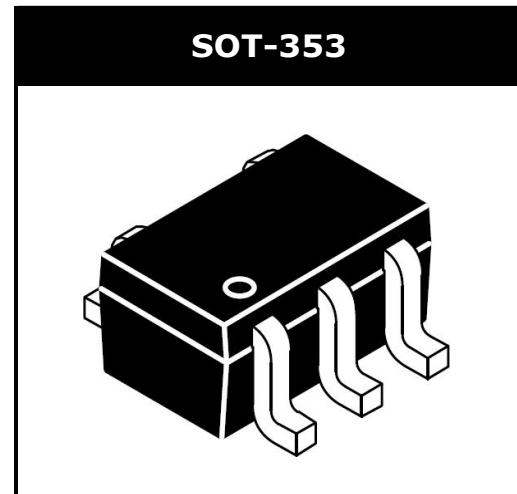
- ✧ IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (air), $\pm 30\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 3A (8/20 μs).

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 : 3.3, 5.0, 12V.
- ✧ Low Leakage Current.

MECHANICAL CHARACTERISTICS

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



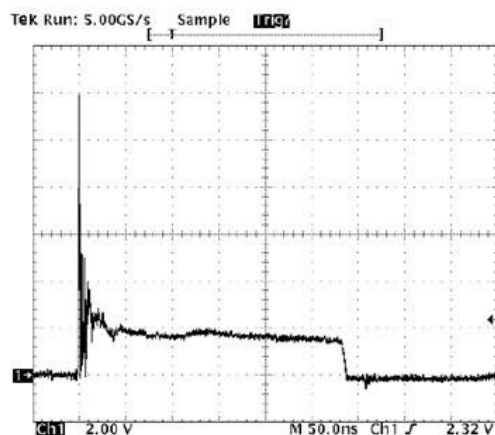
DEVICE CHARACTERISTICS
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	100	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

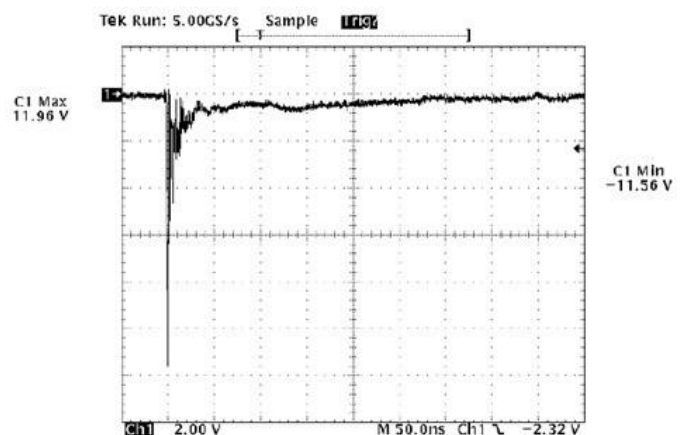
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

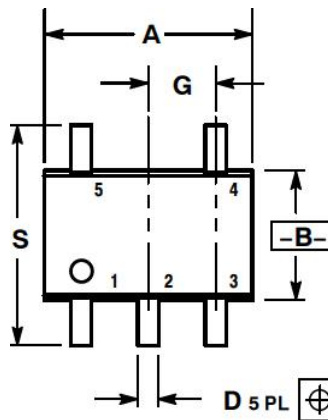
PART NUMBER	DEVICE MARKING	V _{RWM} (V) (max.)	V _B (V) (min.)	I _T (mA)	V _C @1A (max.)	V _C (max.) (@A)	I _R (μA) (max.)	C _T (pF) (typ.)
SDA33W5	WB	3.0	4.5	1	9.8	15.3	4	5
SDA05W5	WE	5	6	1	9.8	18.5	3	2
SDA12W5	WH	12	13.3	1	9.8	21.0	2	1

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

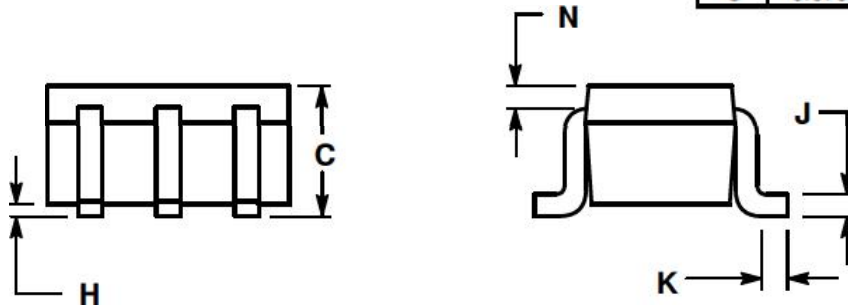
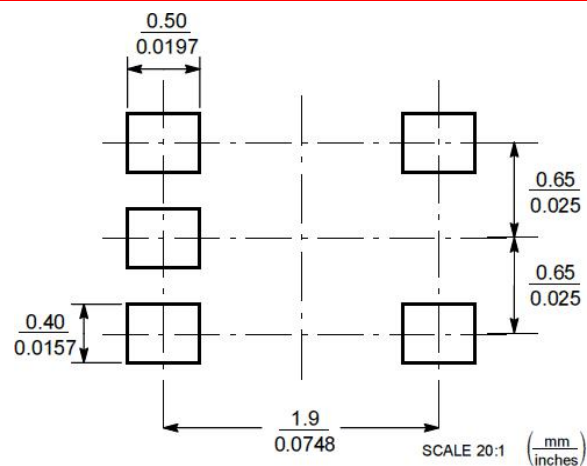


ESD Clamping
(-8kV Contact per IEC 61000-4-2)



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**


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