

APPLICATIONS

- ✧ RS-232, RS-422 & RS-423 Data Lines.
- ✧ Audio/Video Inputs.
- ✧ Wireless Network Systems.
- ✧ Digit Video Interface (DVI).
- ✧ Medical Sensors.
- ✧ Notebook Computers.

IEC COMPATIBILITY

- ✧ IEC61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact).
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns).
- ✧ IEC61000-4-5 (Lightning) 12A (8/20 μs).

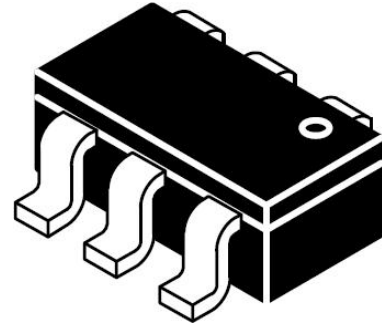
FEATURES

- ✧ 350 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$).
- ✧ Protects four or five directional I/O lines.
- ✧ Low clamping voltage.
- ✧ Working voltages : 5V, 12V, 15V and 24V.
- ✧ Low leakage current.

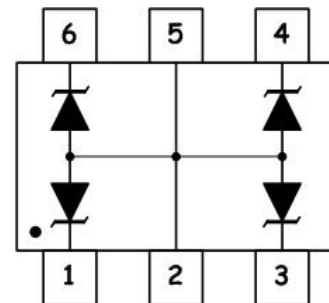
MECHANICAL CHARACTERISTICS

- ✧ SOT-26 Package.
- ✧ Molding Compound Flammability Rating : UL 94V-O.
- ✧ Weight 14 Milligrams (Approximate).
- ✧ Quantity Per Reel : 3,000pcs.
- ✧ Reel Size : 7 inch.
- ✧ Lead Finish : Lead Free.

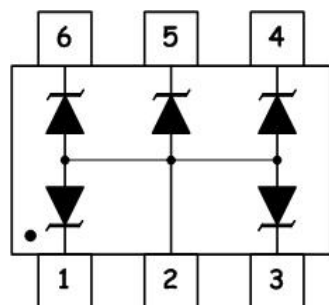
SOT-26



PIN CONFIGURATION



SMSxx



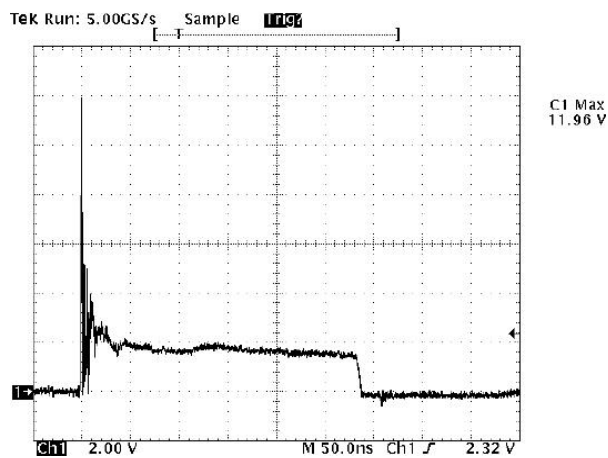
SMSxxC

DEVICE CHARACTERISTICS

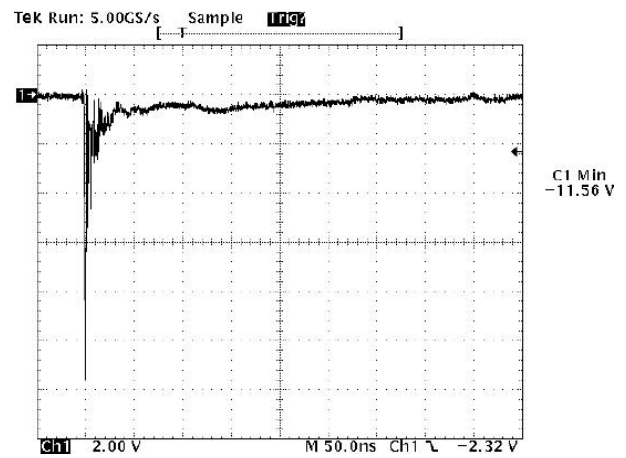
MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)			
PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	350	Watts
Lead Soldering Temperature	T _L	260 (10 sec.)	°C
Operating Temperature Range	T _J	-55 ~ 150	°C
Storage Temperature Range	T _{STG}	-55 ~ 150	°C

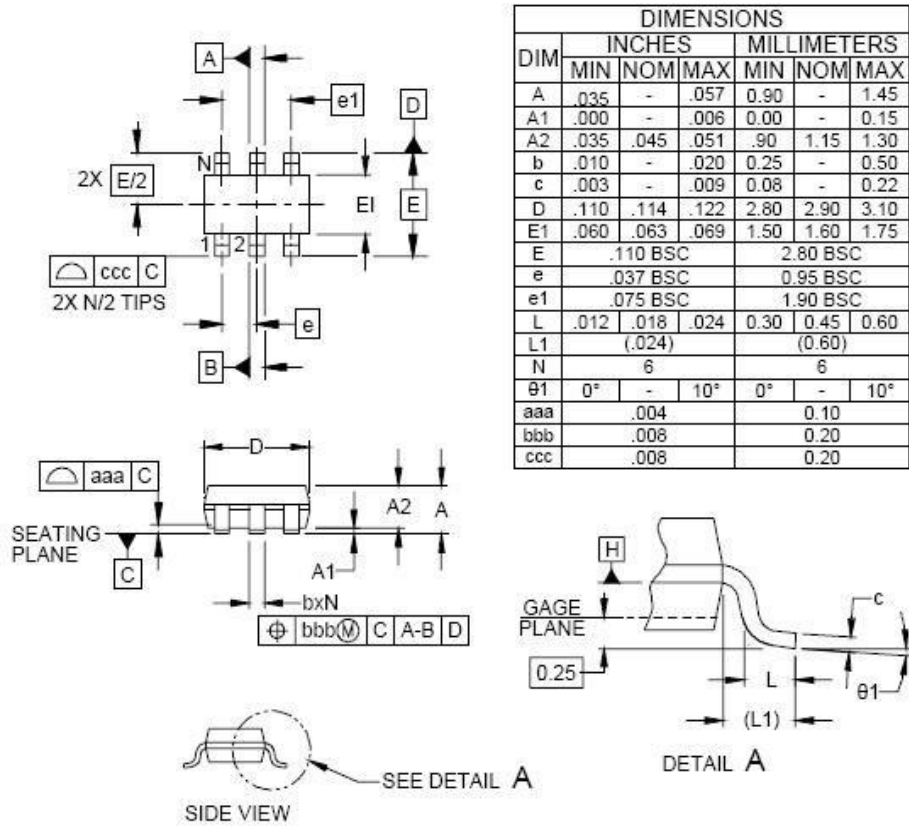
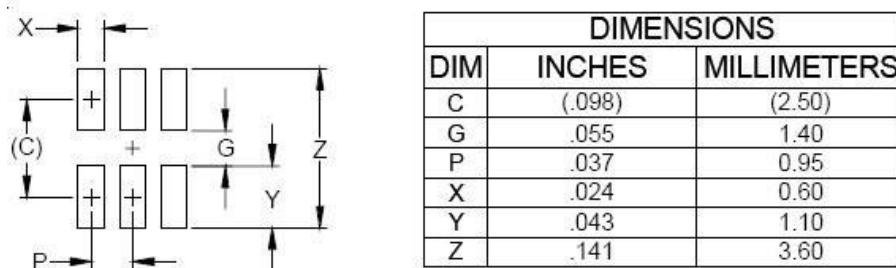
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)									
PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@5A (max.)	(max.)	(@A)	(μA) (max.)	(pF) (max.)
SMS3.3 SMS3.3C	TU3 TC3	3.3	4.5	1	7.5	14.0	25	5	250
SMS05 SMS05C	TUA TC5	5.0	6.0	1	9.8	15.0	24	5	200
SMS12 SMS12C	TUB TCH	12.0	13.3	1	19.0	27.0	15	1	90
SMS15 SMS15C	TUC TCJ	15.0	16.7	1	24.0	30.0	12	1	70
SMS24 SMS24C	TUD TCK	24.0	26.7	1	38.0	46.0	8	1	50

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



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



SOT-26 PACKAGE OUTLINE & DIMENSIONS

*** SOLDERING FOOTPRINT**

 Website: <http://www.jksemi.com>

For additional information, please contact your local Sales Representative.

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