

DUAL LINE CAN BUS PROTECTOR

Features:

- ◆ 200 Watts Peak Pulse Power per Line ($t_p=8/20\mu s$)
- ◆ Protects Two Lines
- ◆ Low Clamping Voltage
- ◆ Working Voltages : 24V
- ◆ Low Leakage Current

Applications:

- ◆ Dual CAN BUS Protection
- ◆ Automatic Teller Machines
- ◆ Security systems
- ◆ Desktops, Servers, Notebooks & Handhelds
- ◆ Microprocessor Based Equipment
- ◆ Set-Top Box

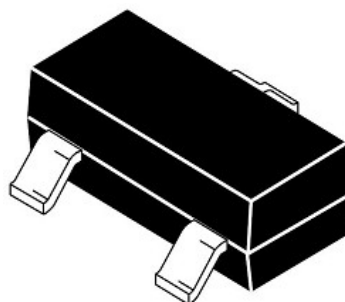
IEC COMPATIBILITY

- ◆ IEC61000-4-2 (ESD) $\pm 25kV$ (air), $\pm 15kV$ (contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (LIGHTING) 3A (8/20 μs)

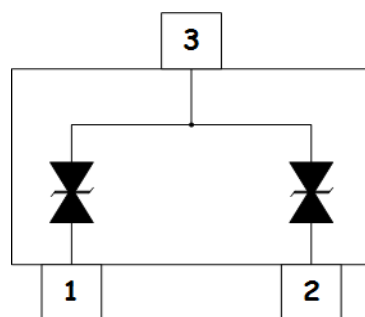
MECHANICAL CHARACTERISTICS

- ◆ JEDEC SOT-23 Package
- ◆ Molding Compound Flammability Rating : UL 94V-O
- ◆ Weight 8 Milligrams (Approximate)
- ◆ Quantity Per Reel : 3,000pcs
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free

SOT-23



PIN CONFIGURATION



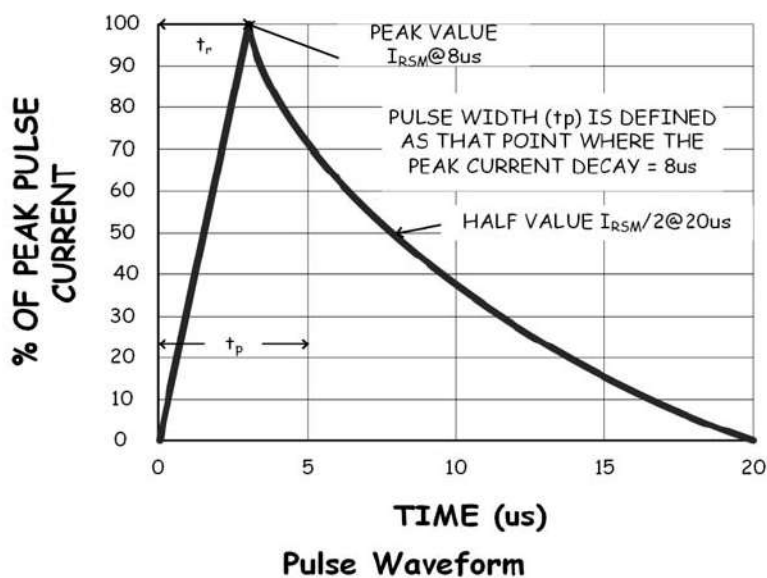
DEVICE CHARACTERISTICS

MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20μs waveform)	P _{PP}	200	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

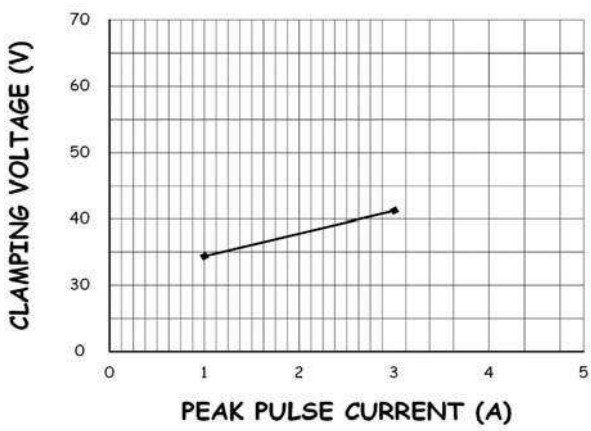
ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C	V _C		I _R	C _T
		(V) (max.)	(V) (min.)	(mA)	@1A (max.)	(max.)	(@A)	(μA) (max.)	(pF) (typ.)
KNS24CDT3	SCH	24	26.7	1	40	45	3	1	11

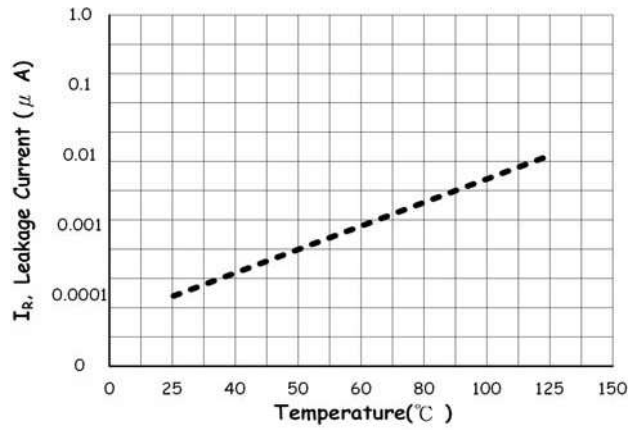


CHARACTERISTICS

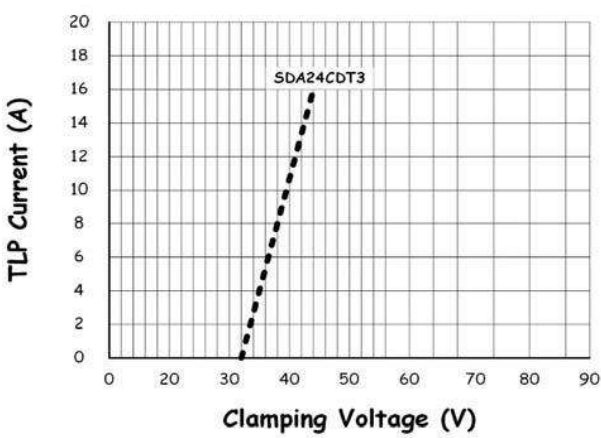
Clamping Voltage vs. Peak Pulse Current (8x20μs)



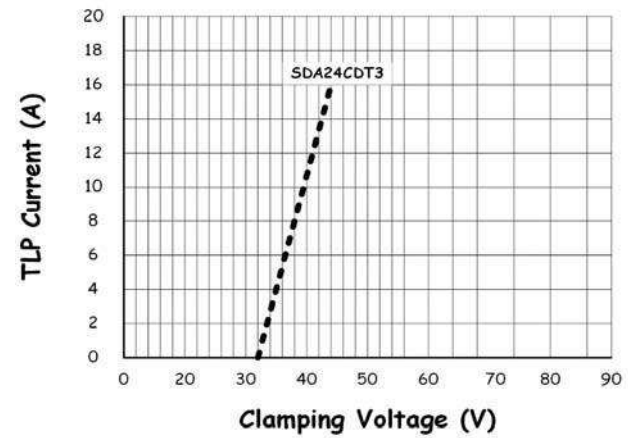
Reverse Current vs. Temperature vs. Bias Voltage



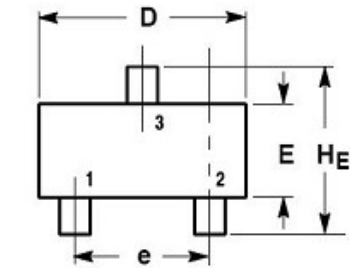
TLP Characteristic (Positive)



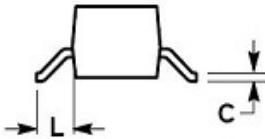
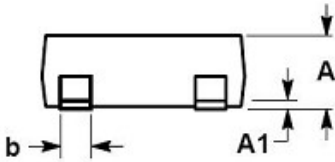
TLP Characteristic (Negative)



SOT-23 PACKAGE OUTLINE & DIMENSIONS



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1.00	1.11	0.035	0.040	0.044
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.37	0.44	0.50	0.015	0.018	0.020
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
e	1.78	1.90	2.04	0.070	0.075	0.081
L	0.35	0.54	0.69	0.014	0.021	0.029
HE	2.10	2.40	2.64	0.083	0.094	0.104



* SOLDERING FOOTPRINT

