

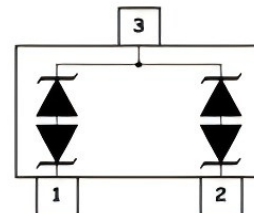
FEATURES

- ✧ Transient protection for high-speed data lines
- ✧ Protects two I/O lines
- ✧ Low clamping voltage
- ✧ Working voltage: 36V
- ✧ Low leakage current
- ✧ Compliant to Halogen-free
- ✧ Suffix “-Q1” for AEC-Q101

MAIN APPLICATIONS

- ✧ Cell Phone Handsets and Accessories
- ✧ Microprocessor based equipment
- ✧ Personal Digital Assistants (PDA's)
- ✧ Notebooks, Desktops, and Servers
- ✧ Portable Instrumentation
- ✧ Peripherals
- ✧ LED bypass

Pin Configuration

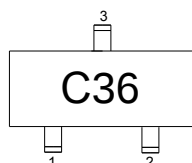


PROTECTION SOLUTION TO MEET

- ✧ IEC 61000-4-2 (ESD) $\pm 30\text{kV}$ (Contact)
- ✧ IEC 61000-4-2 (ESD) $\pm 30\text{kV}$ (Air)

MECHANICAL CHARACTERISTICS

- ✧ SOT-323 package
- ✧ Flammability rating : UL 94V-0
- ✧ Lead finish : lead free
- ✧ Marking code: C36



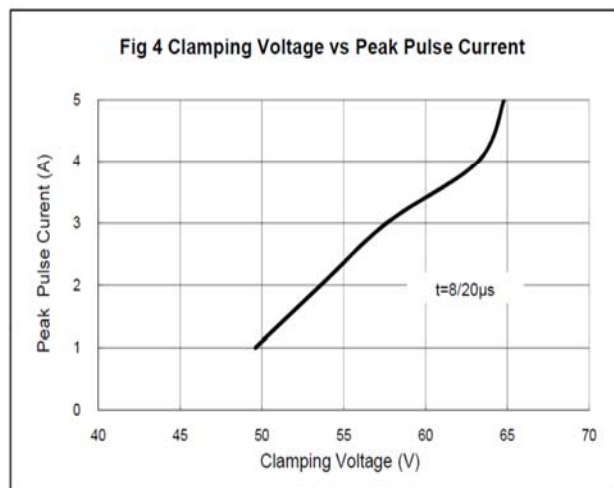
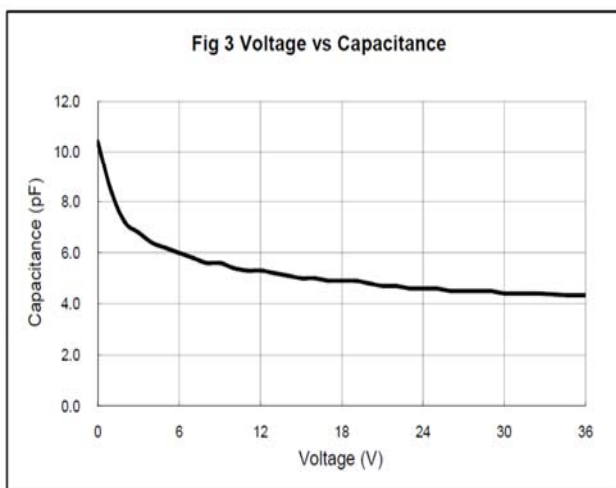
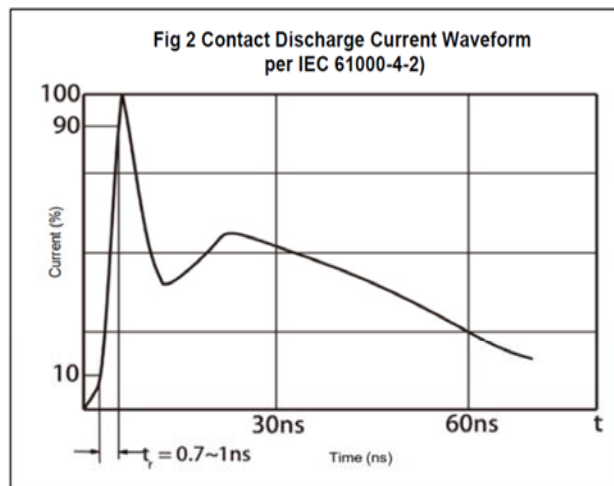
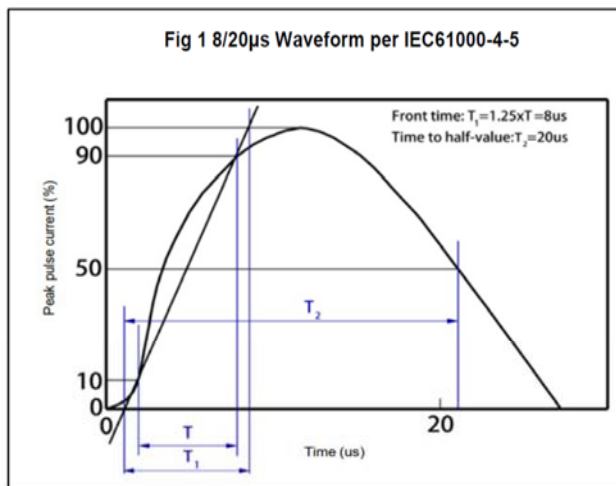
ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter	Value	Units
V _{ESD}	ESD per IEC 61000-4-2 (Contact)	±30	kV
	ESD per IEC 61000-4-2 (Air)	±30	
P _{PP}	Peak Pulse Power (8/20μs)	306	W
T _{OPT}	Operating Temperature	-55/+125	°C
T _{STG}	Storage Temperature	-55/+150	°C

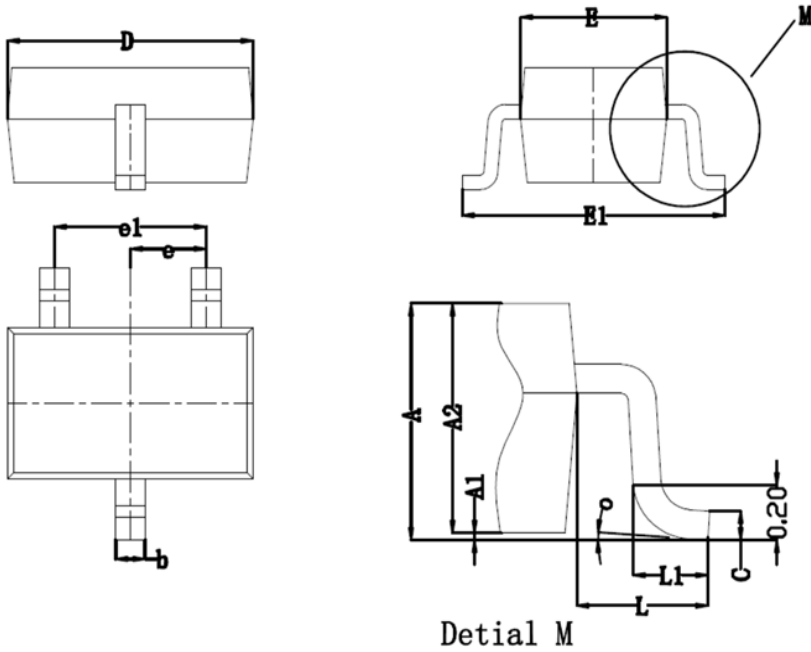
ELECTRICAL CHARACTERISTICS (T_A=25°C)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V _{RWM}	Reverse Working Voltage				36	V
V _B	Reverse Breakdown Voltage	I _R = 1mA	40			V
I _R	Reverse Leakage Current	V _{RWM} = 36V			5	μA
V _{C1}	Clamping Voltage 1	I _{PP} = 1A, t _p = 8/20μs			55	V
V _{C2}	Clamping Voltage 2	I _{PP} = 4.5A, t _p = 8/20μs			68	V
C _{ESD}	Parasitic Capacitance	V _R = 0V, f = 1MHz			14	pF

ELECTRICAL CHARACTERISTICS CURVE



SOT-323 PACKAGE OUTLINE DIMENSIONS



Symbol	Dim in mm		
	Min	Nom	Max
A	0.900	1.000	1.100
A1	0.000	0.050	0.100
A2	0.900	0.950	1.000
b	0.200	0.300	0.400
c	0.080	0.115	0.150
D	1.900	2.050	2.200
E	1.150	1.250	1.350
E1	2.000	2.200	2.400
e	0.650 TYP		
e1	1.200	1.300	1.400
L	0.525 REF		
L1	0.260	0.360	0.460
o	0°	4°	8°