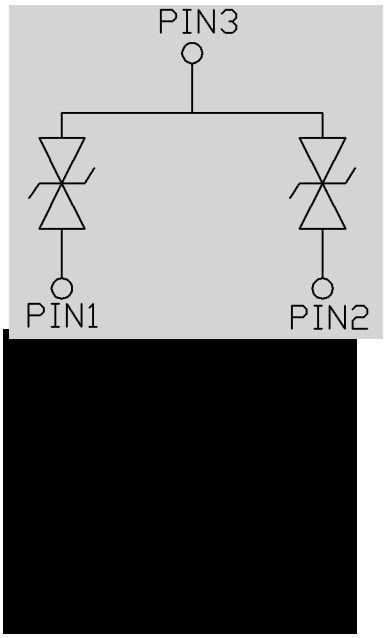
RoHS
COMPLIANT



- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- Dual Line CAN Bus Protector for SOT-23 Package
- Max Peak Pulse Power 300W per Line (tp=8/20 us)
- Low Clamping Voltage V_C=40V@I_{PP}=1A
- IEC 61000-4-2 level 4 (ESD)
- IEC 61000-4-5 (surge) IPP = 5 A at tp = 8/20 us
- Part no. with suffix “Q” means AEC-Q101 qualified

- Automotive Controlled Area Network

- SOT-23
- Tin plated leads, solderable per J-STD-002 and JESD22-B102
- AN

■ (T_a=25 Unless otherwise specified)

Peak Pulse Power per Line (tp=8/20 us) Note1	P_{PP}	W	300
Peak Pulse Current per Line (tp=8/20 us) Note1	I_{PP}	A	5
Storage Temperature Range	T_{stg}	°C	-55~+150
Junction Temperature	T_J	°C	-55~+100
Human Body Model HBM Note2	V_{ESD}	KV	10
IEC 61000-4-2 (contact discharge) Note2		KV	22

Note1 Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC 61000-4-5.
Note2 Measured from pin 1 to 3 or 2 to 3.

■ (Ta=25 unless otherwise noted)

Reverse Working Voltage	V_{RWM}	V		-		24
Reverse Breakdown Voltage	V_{BR}	V	I_T=1mA	27		-
Reverse Leakage Current	I_R	nA	V_{RWM}=24V	-		200
Clamping Voltage(pin 1 to 3 or 2 to 3)	V_C	V	I_{PP}=1A (8/20us Pulse)	-		40
	V_C	V	I_{PP}=5A (8/20us Pulse)	-		60
Junction Capacitance(pin 1 to 3 or 2 to 3)	C_j	pF	V_{BR}=0V f=1MHZ	-		30

■ (Example)

ESD1CAN24T2Q	F2	Approximate 0.01	3000	30000	120000	7” reel

(Typical)

Fig.1 8/20 μs pulse waveform according to IEC 61000-4-5

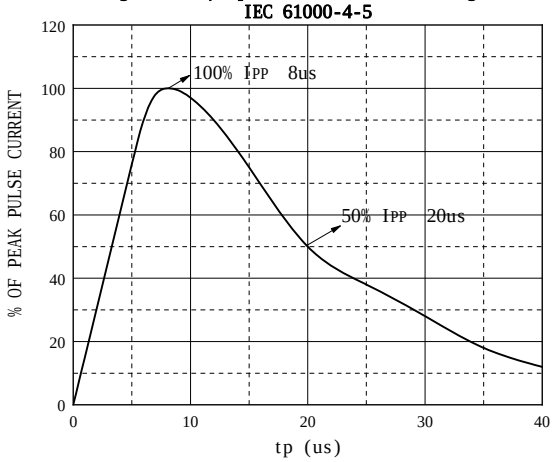


Fig.2 Clamping Voltage vs Peak Pulse Current

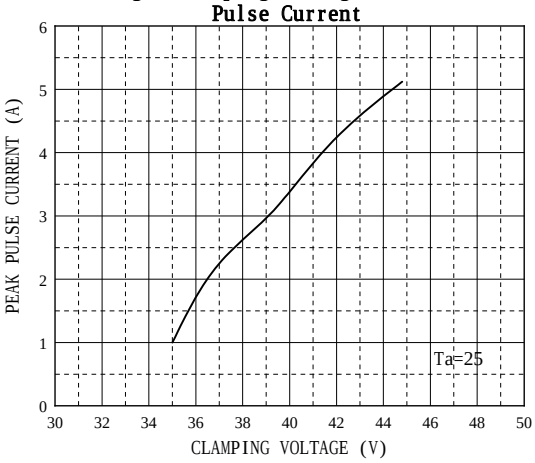


Fig.3 Temperature Power Dissipation Derating

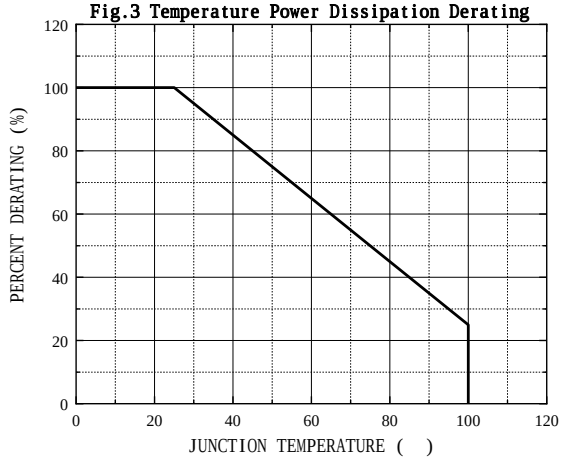


Fig.4 Peak pulse power as a function of exponential pulse duration

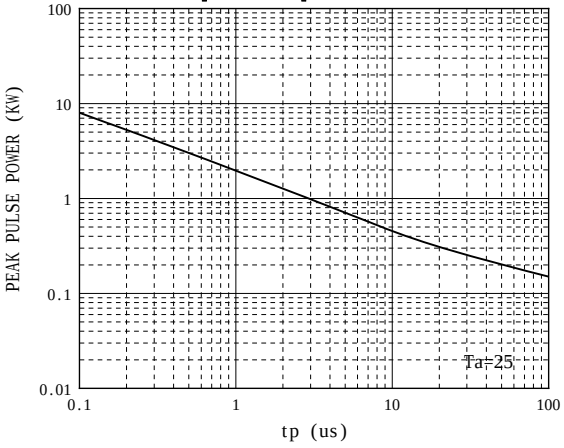
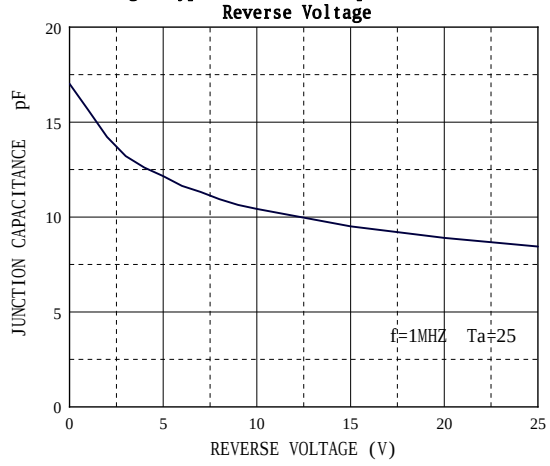
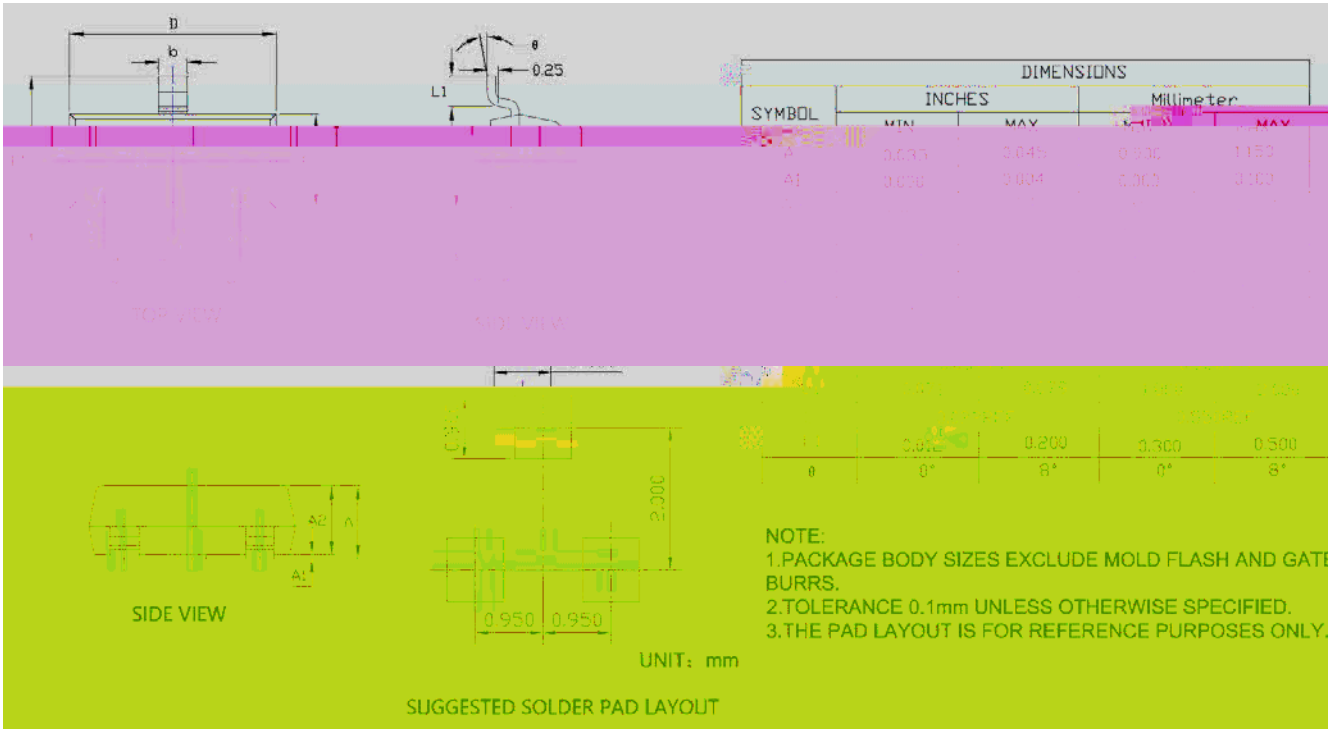
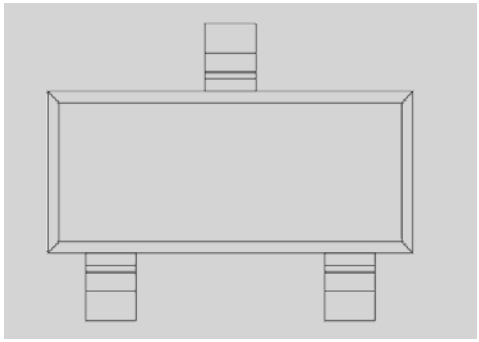


Fig.5 Typical Junction Capacitance vs Reverse Voltage





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Note:
1. All marking is at middle of the product body
2. All marking is in laser marking
3.XX is Marking Code
4. Body color: Black

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