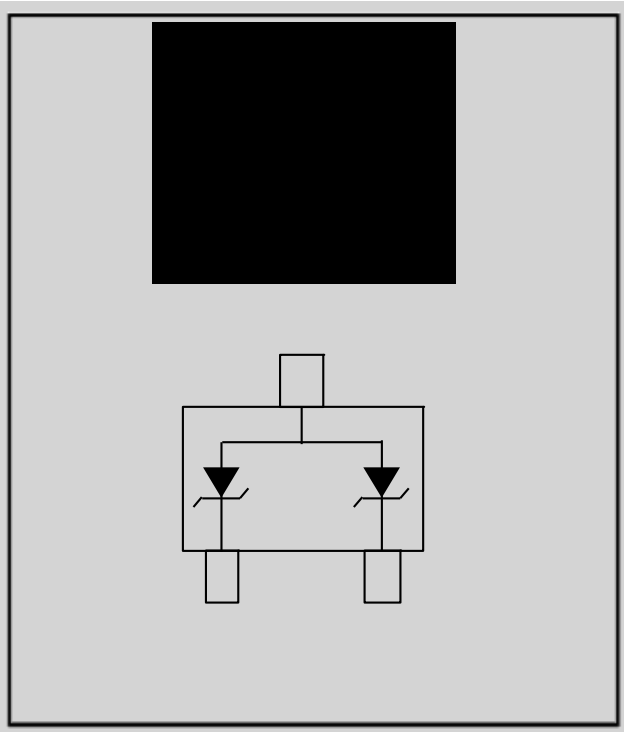
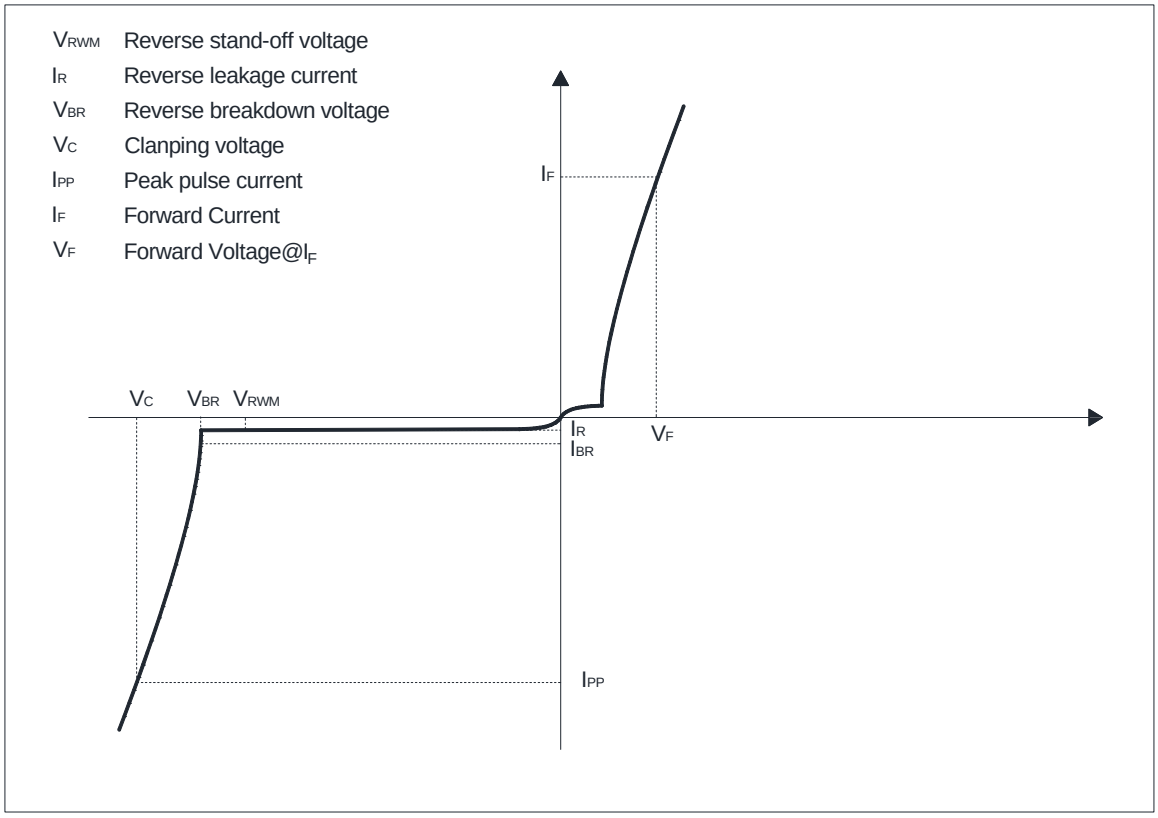


- Transient protection for each line according to
  IEC61000-4-2(ESD): ±16kV contact, ±16kV air
  IEC61000-4-5:3A(tp=8/20μs)
- Low leakage current
- Ultra low clamping voltage
- RoHS Compliant
- Part no. with suffix “Q” means AEC-Q101 qualified

- Vehicle domain controller ,VCU electrostatic protection
- Electrostatic protection for automotive electronic multimedia interface
- CAN Bus protection
- Automotive applications

- Package: SOT-23
- Lead Finish: Matte Tin
- Case Material: “Green” Molding Compound
- Moisture Sensitivity: Level 1 per J-STD-020

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Peak pulse power (t_p = 8/20μs)	P_{pk}	210	W
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±16	KV
ESD according to IEC61000-4-2 contact discharge		±16	
Junction temperature	T_J	-55~150	
Storage temperature	T_{STG}	-55~150	

Notes:

CAUTION: Stresses above those listed in “Absolute Maximum Ratings” may cause permanent damage to the component. This is a stress only rating and operation of the component at these or any other conditions above those indicated in the operational sections of this specification is not implied.

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Reverse Standoff Voltage	V_{RWM}	V				36
Reverse breakdown voltage	V_{BR}	V	I_{BR} = 1mA	38		48
Reverse leakage current	I_R	μA	V_{RWM} = 36V			0.5
Forward Voltage	V_F	V	I_F=10mA			1.1
Clamping voltage [1)]	V_C	V	I_{PP} = 1A, t_p = 8/20μs			55
		V	I_{PP} = 3A, t_p = 8/20μs			70

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Fig.1: 8/20μs Pulse Waveform

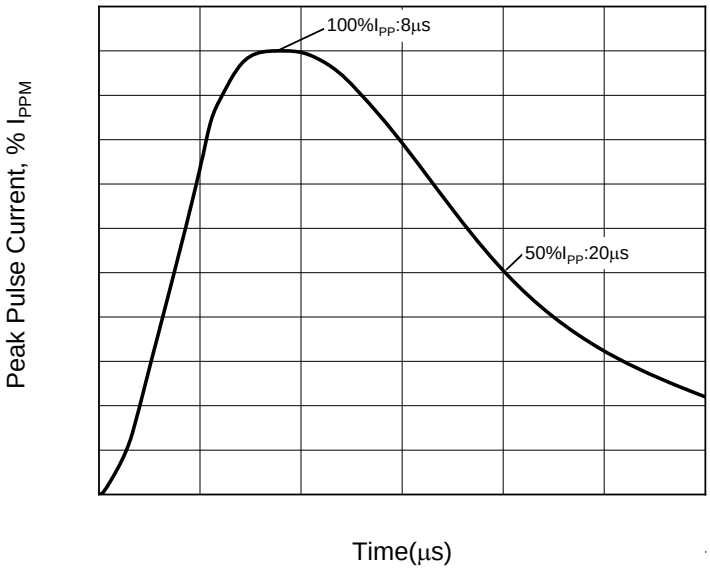


Fig.2:Peak Pulse Current vs Clamping Voltage

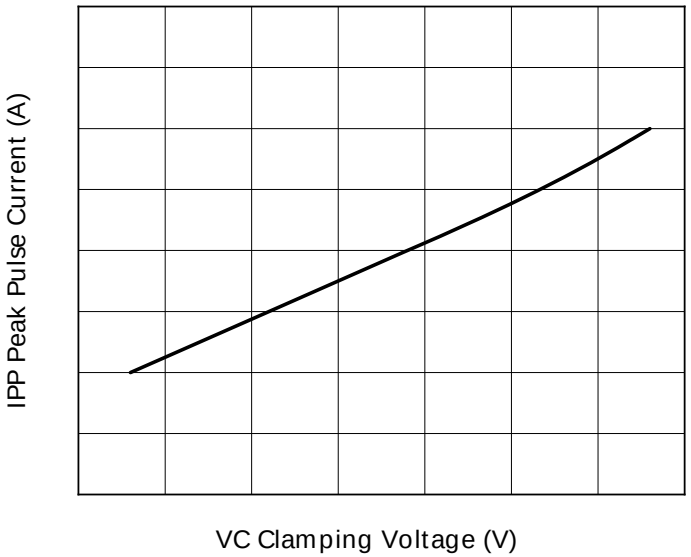


Fig.3: Power Derating Curve

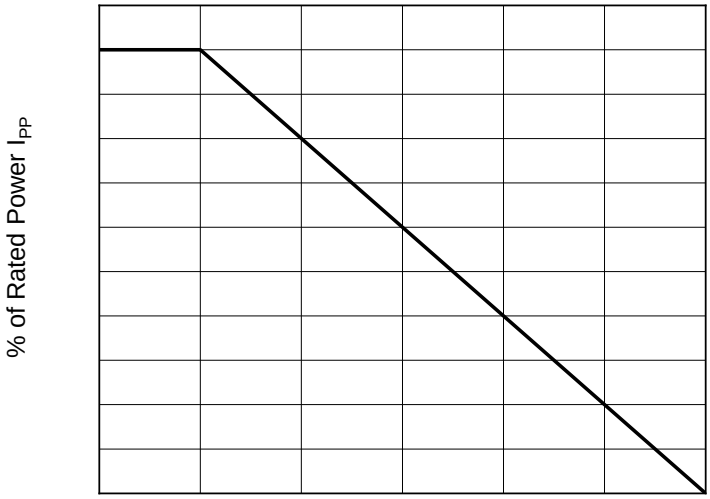
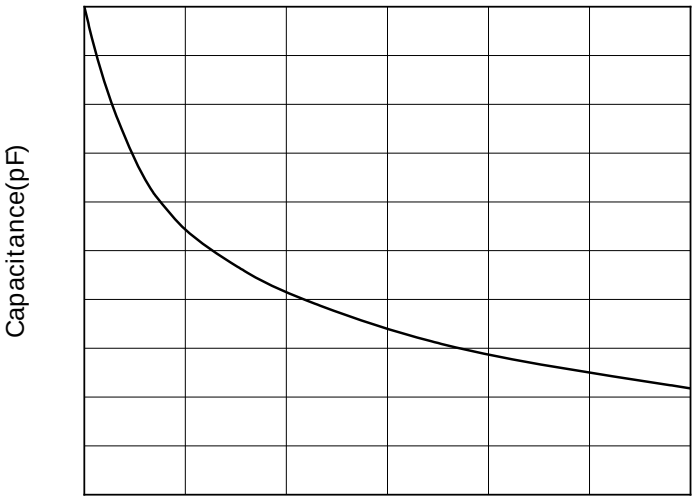
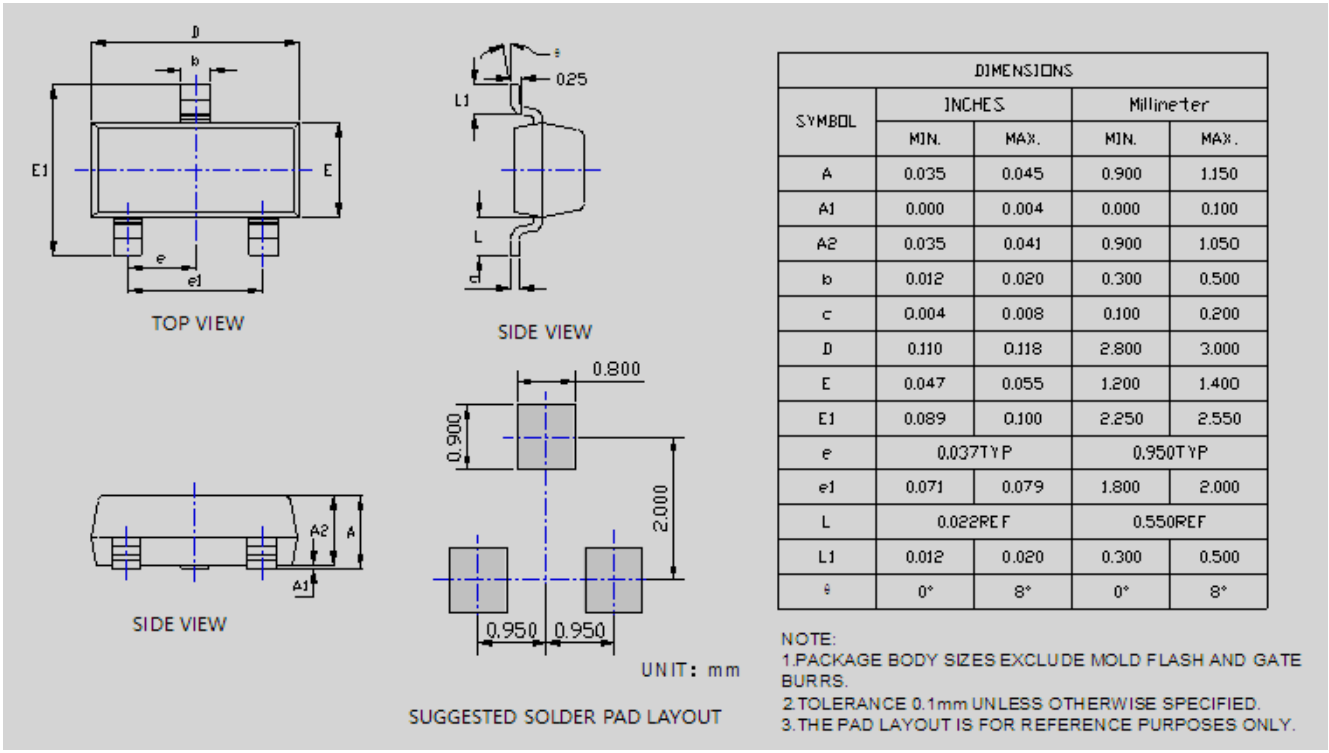


Fig.4: Capacitance vs. Bias



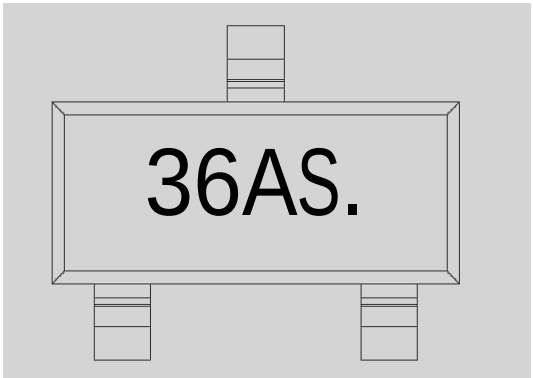
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DIMENSIONS				
SYMBOL	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100
A2	0.035	0.041	0.900	1.050
b	0.012	0.020	0.300	0.500
c	0.004	0.008	0.100	0.200
D	0.110	0.118	2.800	3.000
E	0.047	0.055	1.200	1.400
E1	0.089	0.100	2.250	2.550
e	0.037TYP		0.950TYP	
e1	0.071	0.079	1.800	2.000
L	0.022REF		0.550REF	
L1	0.012	0.020	0.300	0.500
θ	0°	8°	0°	8°

NOTE:
1.PACKAGE BODY SIZES EXCLUDE MOLD FLASH AND GATE BURRS.
2.TOLERANCE 0.1mm UNLESS OTHERWISE SPECIFIED.
3.THE PAD LAYOUT IS FOR REFERENCE PURPOSES ONLY.

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