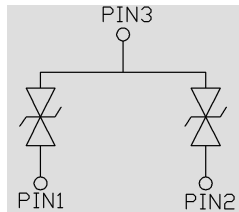




CAN-FD bus ESD protection diode



SOT-23



Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- Dual Line CAN-FD Bus Protector for SOT-23 Package
- Max Peak Pulse Power 180W per Line (tp=8/20 μ s)
- IEC 61000-4-2, level 4 (ESD)
- IEC 61000-4-5 (surge), $I_{PP} = 5A$ at tp = 8/20 μ s
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- Automotive Controlled Area Network

Mechanical Data

- **Case:** SOT-23
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings ($T_a=25$

HBM Note2	V_{ESD}	kV	30
IEC 61000-4-2 (contact discharge) Note2		kV	30

Note1 Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC 61000-4-5.

Note2 Measured from pin 1 to 3 or 2 to 3.

■ Electrical Characteristics ($T_a=25$ unless otherwise noted)

ITEM	SYMBOL	UNIT	CONDITIONS	MIN.	TYP.	MAX.
Reverse Working Voltage	V_{RWM}	V		-	-	24
Reverse Breakdown Voltage	V_{BR}	V	$I_r=1mA$	25.5		35.5
Reverse Leakage Current	I_R	nA	$V_{RWM}=24V$	-	1	50

Clamping Voltage(pin 1 to 3 or 2 to 3)) c

	j	pF	$V_R=0V, f=1MHZ$	-	6	10
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Notes:

(1). Non-repetitive current pulse, according to IEC61000-4-5.

(2). TLP parameter: $Z_0 = 50\Omega$, tp = 100ns, tr = 2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.



ESD2CANFD24T2Q

RoHS
COMPLIANT

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ESD2CANFD24T2Q	F2	Approximate 0.01	3000	30000	120000	7" reel

■ Characteristics (Typical)

Fig.1: 8/20 μ s Pulse Waveform

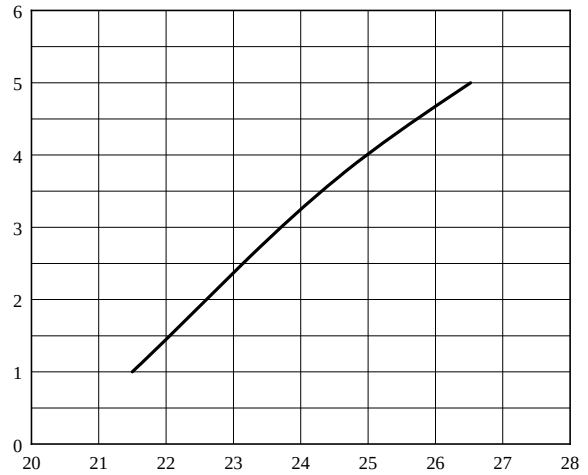
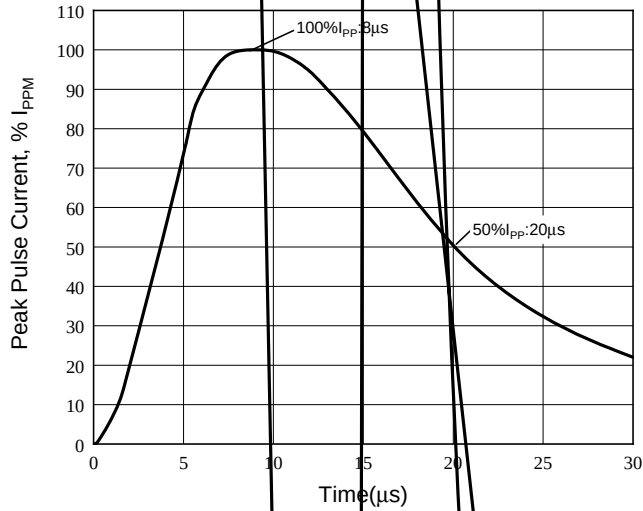
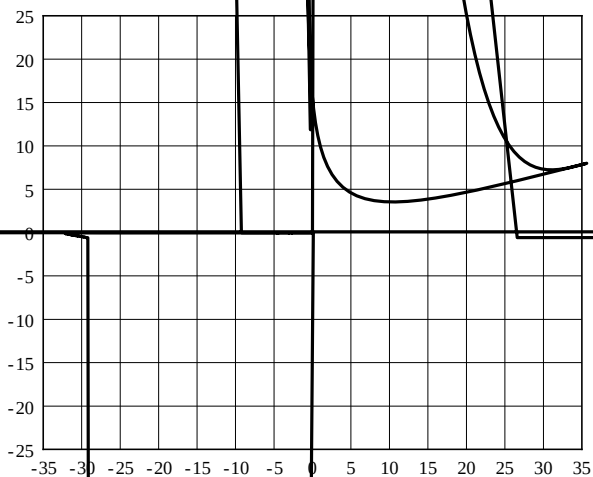
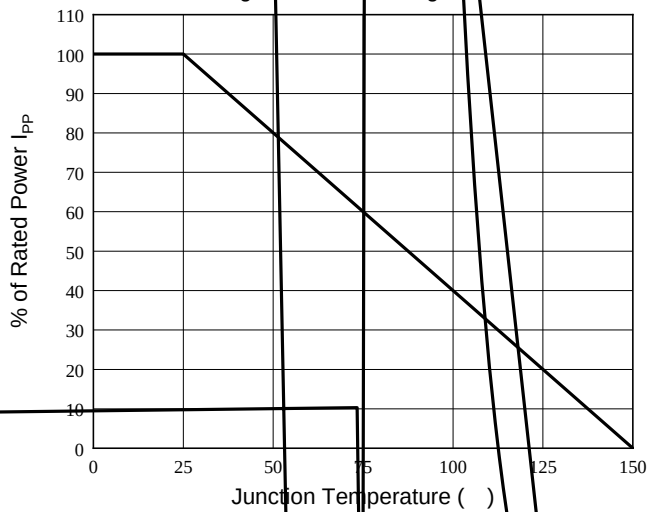
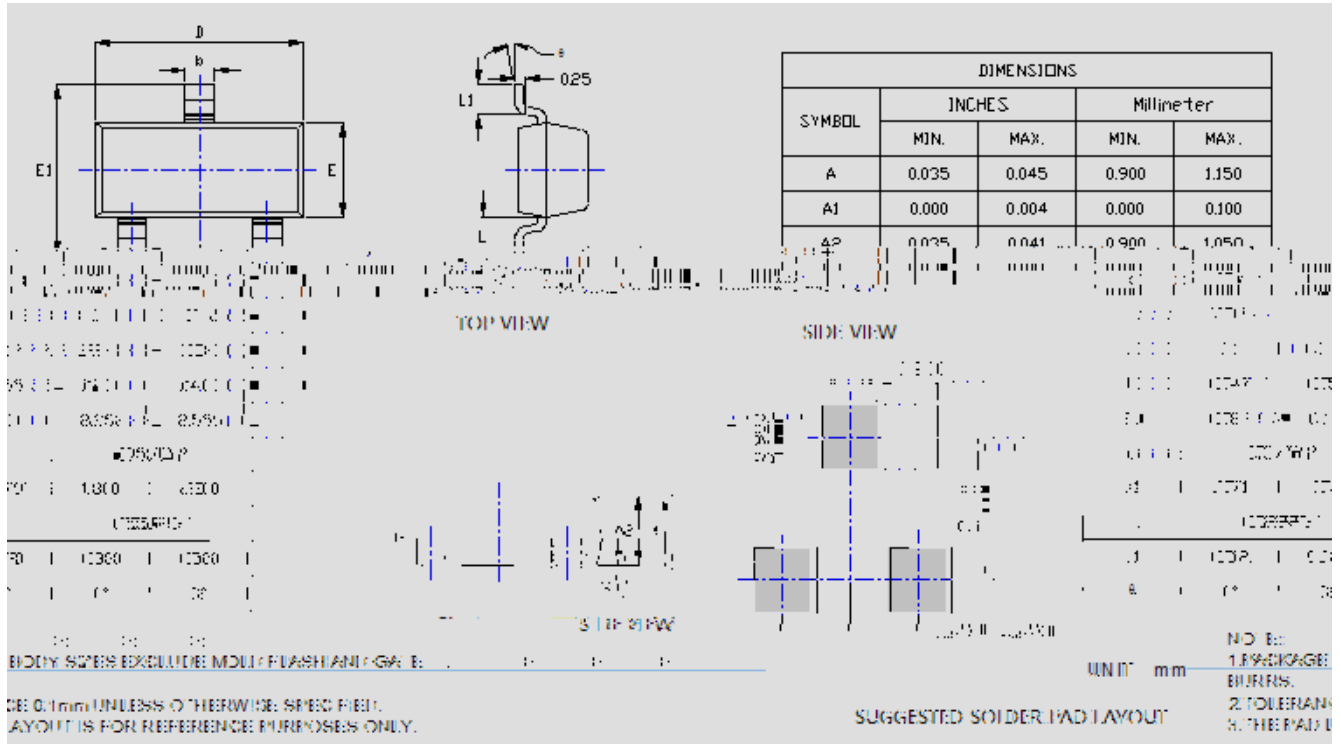


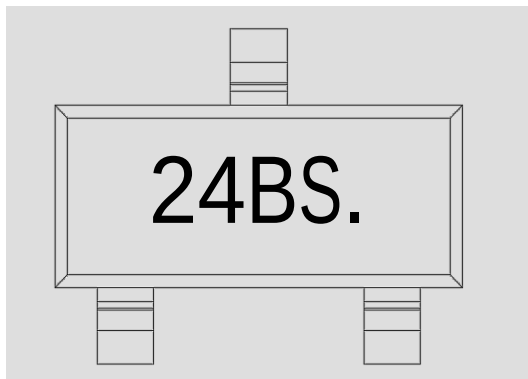
Fig.3: Power Derating Curve



Outline Dimensions



Marking Information



Note:

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



Disclaimer

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