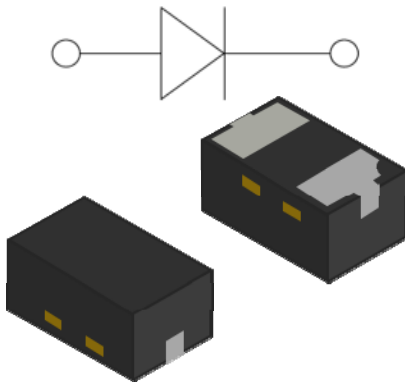


Small Signal Switching Diode



DFN1006-2L-SWF

Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- V_R 250V
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- For General Purpose Switching Applications
- Automotive

Mechanical Data

- **Case:** DFN1006-2L-SWF
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end
- **Marking:** J3

■ Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Value
Reverse Voltage	V_R	V	250
Forward Continuous Current, Per Leg	I_F	mA	150
Non-Repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$,	I_{FSM}	A	1
Power Dissipation	P_D	mW	150
Thermal Resistance Junction to Ambient	R_{thJA}	$^\circ\text{C}/\text{W}$	833
Operation Junction Temperature	T_J	$^\circ\text{C}$	-55 to +150
Storage Temperature	T_{STG}	$^\circ\text{C}$	-55 to +150

■ Electrical Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

Item	Symbol	Unit	Conditions	MIN	MAX
Reverse Voltage	V_R	V	$I_R=100\mu\text{A}$	250	
Maximum Instantaneous Forward Voltage	V_F	V	$I_{FM}=100\text{mA}$, $T_J=25^\circ\text{C}$		1.0
			$I_{FM}=200\text{mA}$, $T_J=25^\circ\text{C}$		1.25
Maximum DC Reverse Current	I_R	nA	$V_R=200\text{V}$		100
Typical Junction Capacitance	C_J	pF	$f=1.0\text{MHz}$, $V_R=0\text{V}$		5
Reverse Recovery Time	T_{rr}	ns	$I_F=30\text{mA}$, $I_R=30\text{mA}$, $R_L=100\Omega$, $I_{rr}=3\text{mA}$		50



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Ordering Information (Example)

PREFERRED P/N	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAS21LSQ	Approximate 0.0009	10K	100K	400K	Tape & Reel

Characteristics (Typical)

Fig.1: PD-Ta Curve

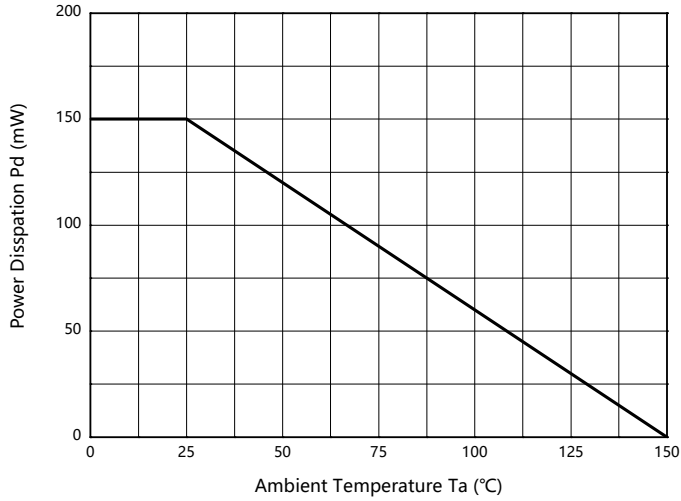


Fig.2: Capacitance Characteristics

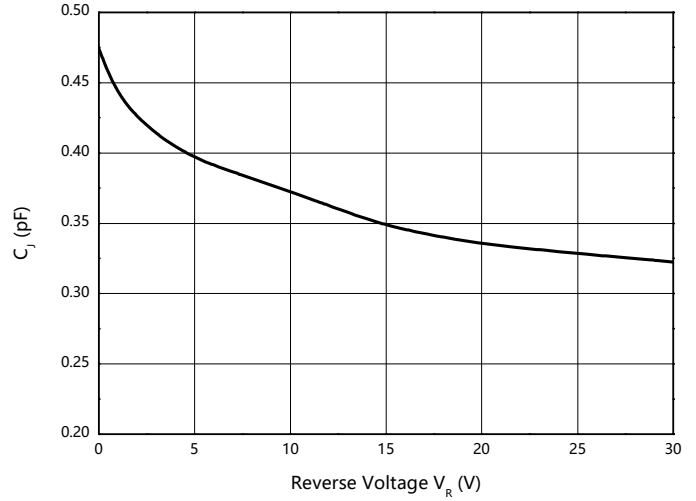


Fig.3: Forward Characteristics

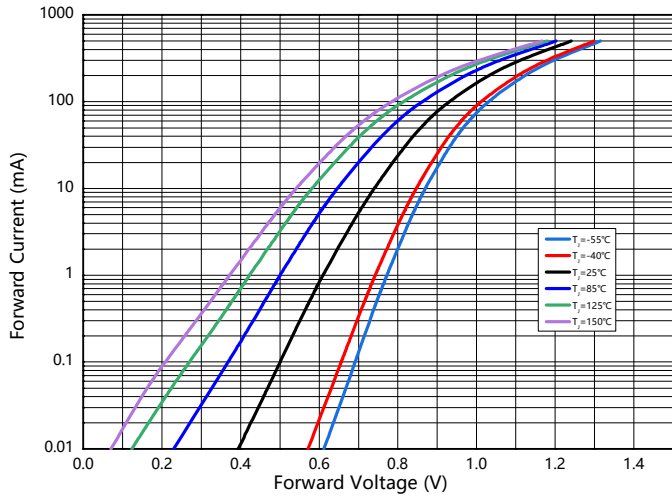
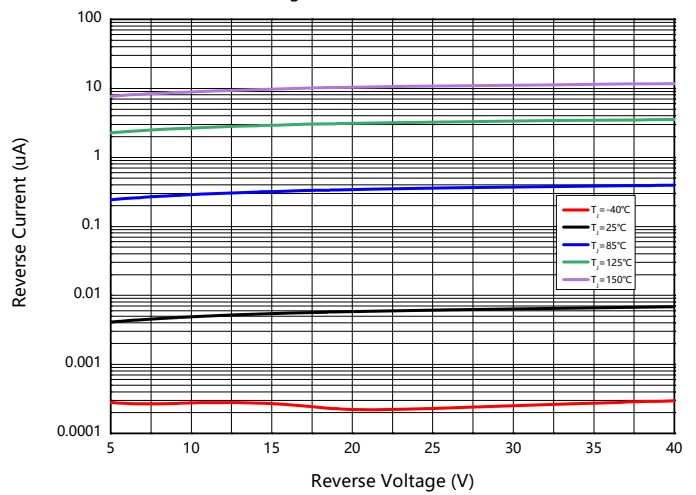


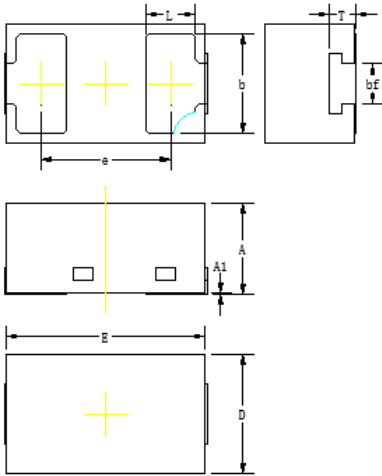
Fig.4: Reverse Characteristics





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■ Outline Dimensions



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.4200	0.4700	0.5200
A1	0.0000		0.1000
bf	REF. 0.20		
b	0.4100	0.5000	0.5900
D	0.5000	0.6000	0.7000
E	0.9000	1.0000	1.1000
e	REF. 0.65		
L	0.1500	0.2500	0.3500
T	0.1000	0.1600	0.2200

■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser marking
3. Body color: Black
4. J3 is Marking Code



BAS21LSQ

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