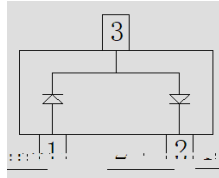




BAV199WTQ



SOT-323



BR 85V

- I_{FAV} 160mA@ Single diode loaded
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- Low-Leakage
- Automotive

Mechanical Data

- Case: SOT-323
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: K52

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

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Reverse Breakdown Voltage	V_{BR}	V		85
Average Forward Current	$I_{FAV}^{[1]}$	mA		160
Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t_p=1\text{ us}$	4
Power Dissipation	P_D	mW		200
Thermal Resistance Junction to Ambient	R_{thJA}	/W		625
Maximum Junction Temperature	T_j			150
Storage Temperature Range	T_{stg}			-55 to +150

[1] Single diode loaded

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

PARAMETER	SYMBOL	UNIT	CONDITIONS	MIN.	TPY.	MAX.
Forward Voltage	V_F	mV	$I_F=1\text{mA}$			900
			$I_F=10\text{mA}$			1000
			$I_F=50\text{mA}$			1100
			$I_F=150\text{mA}$			1250
Reverse Current	I_R	nA	$V_R=75\text{V}$			5
Reverse Breakdown Voltage	V_{BR}	V	$I_R=100\mu\text{A}$	85		
Junction Capacitance	C_j	pF	$V_R=V_F=0\text{V}$, $f=1\text{MHz}$			4
Reverse Recovery Time	t_{rr}	μs	$I_F=I_R=10\text{mA}$, $I_{rr}=0.1I_R$, $R_L=100\Omega$			3



■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BAV199WTQ	F2	Approximate 0.006	3000	30000	120000	7" reel

■ Characteristics (Typical)

Fig.1: P_D-T_A

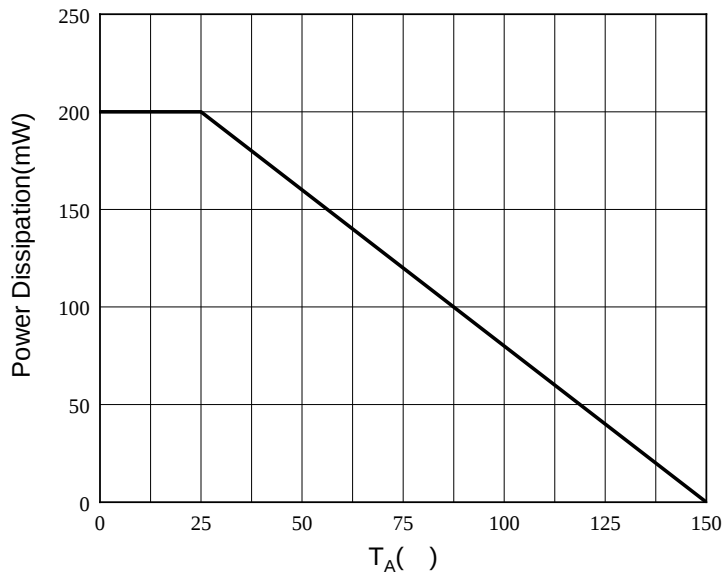


Fig.2: Capacitance Characteristics

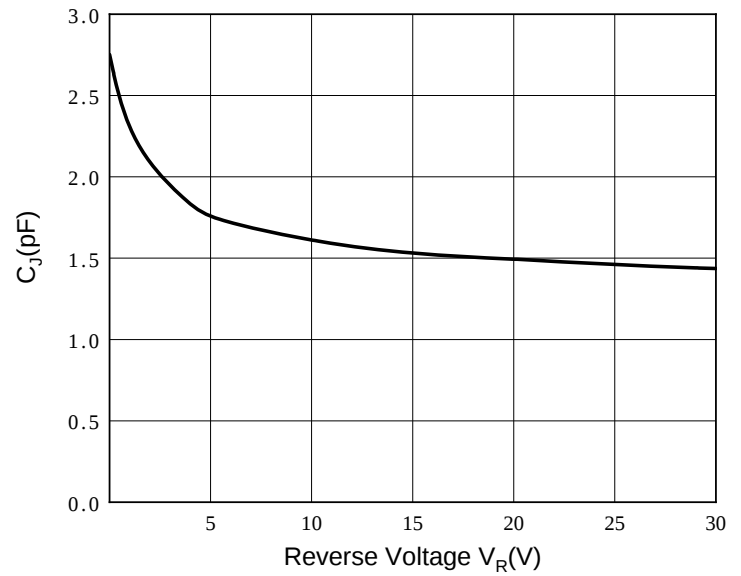
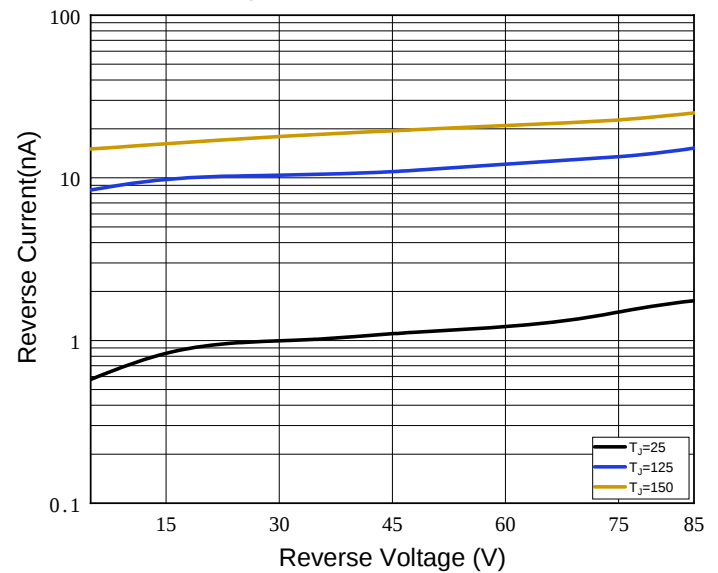
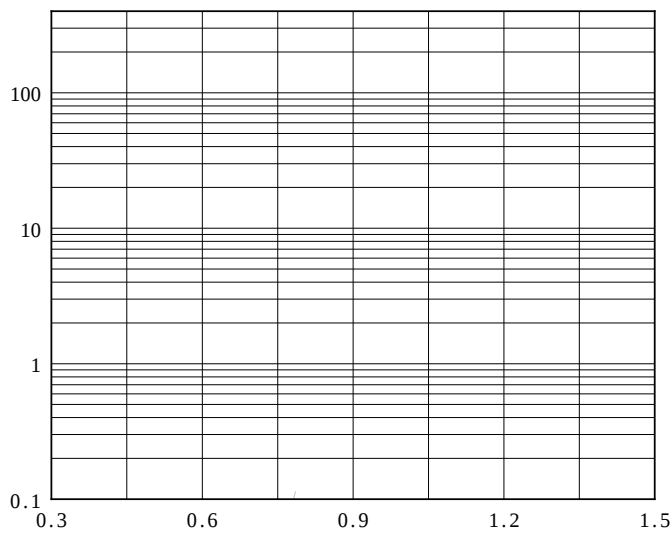


Fig.4: Reverse Characteristics





■ 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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