

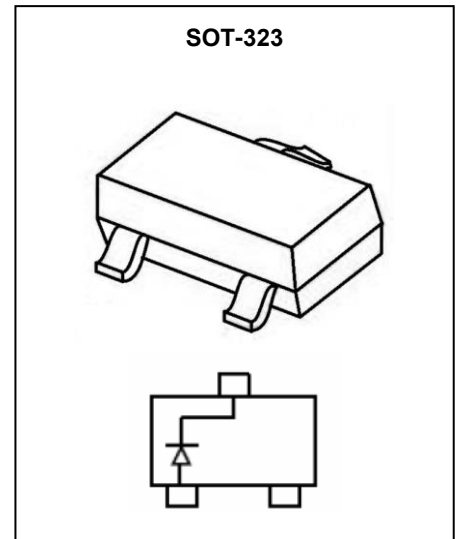


BAS21W Switching Diode

Feature

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

MARKING: KT3



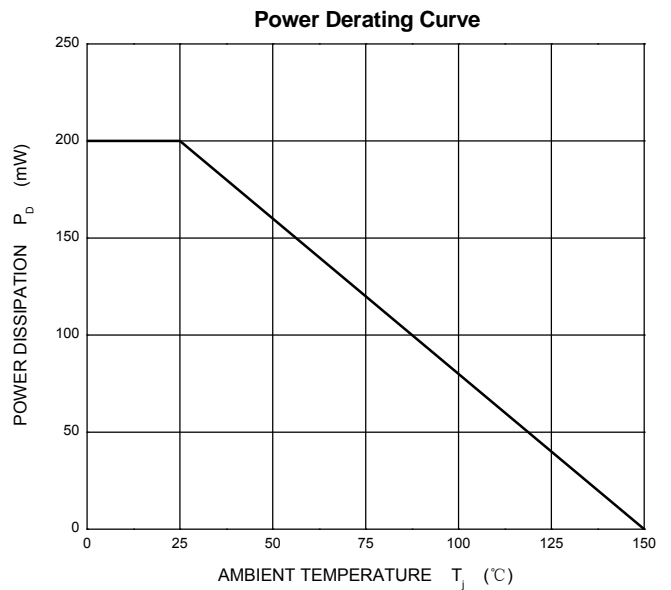
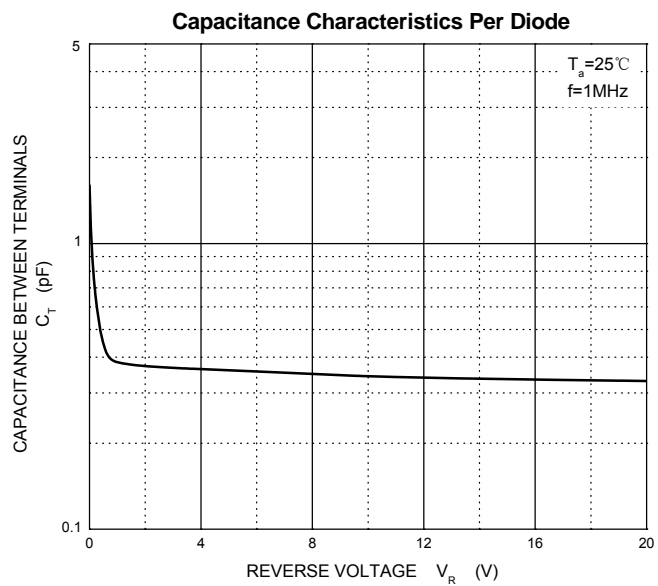
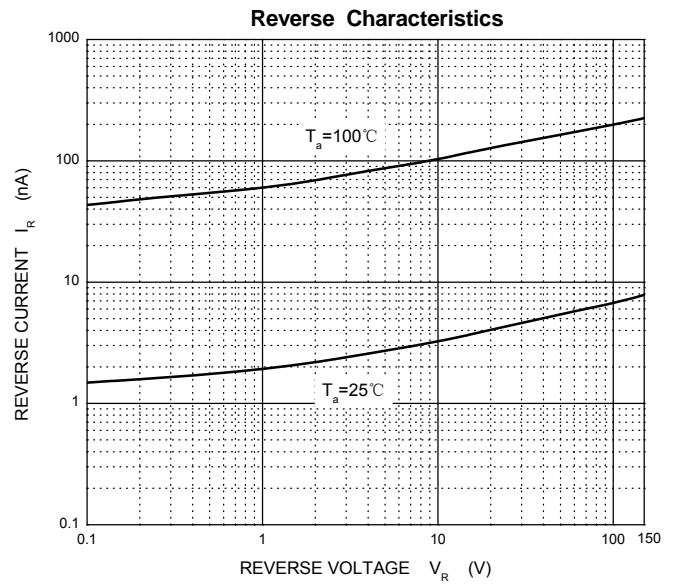
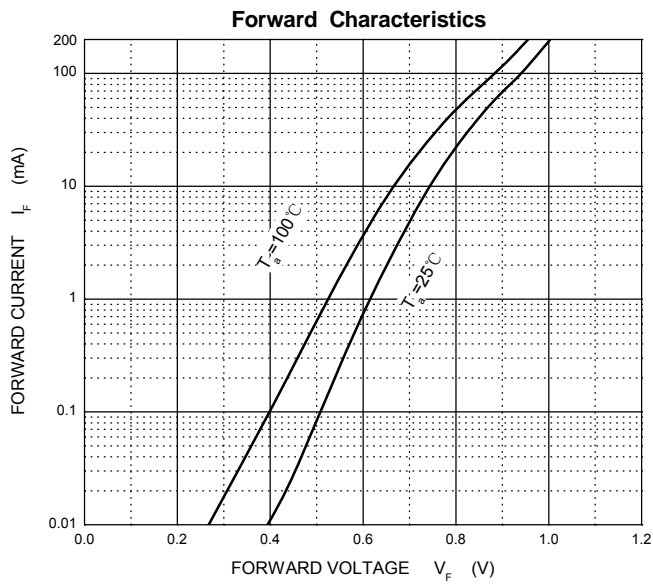
ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_{RM}	250	V
Peak reverse voltage	V_{RM}	250	V
Continuous Forward Current	I_o	0.2	A
Non-repetitive Peak Forward Current @ $t=1\mu\text{s}$	I_{FSM}	2.5	A
Power Dissipation	P_D	0.2	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}\text{C}$
Thermal Resistance	R_{JA}	625	$^{\circ}\text{C}/\text{W}$

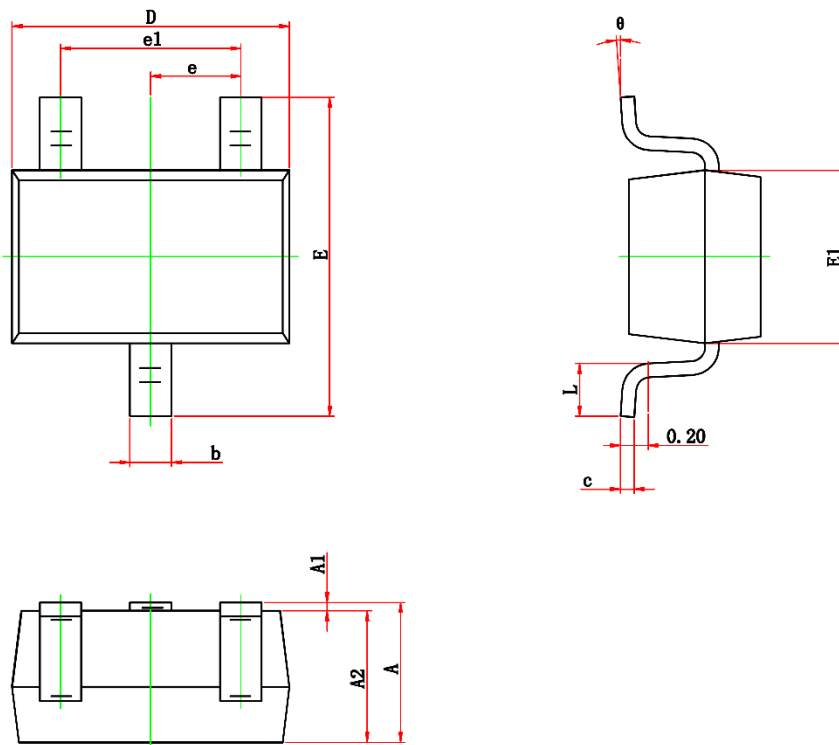
ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	$I_R = 100\mu\text{A}$	250			V
Forward voltage	V_F	$I_F = 100\text{mA}$			1	V
		$I_F = 200\text{mA}$			1.25	V
Reverse current	I_R	$V_R = 200\text{V}$			100	nA
		$V_R = 200\text{V}, T_a = 150^{\circ}\text{C}$			100	μA
Typical Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1.0\text{MHz}$			5	pF
Reverse Recovery Time	T_{RR}	$I_F = 30\text{mA}, I_R = 3\text{mA}, I_{RR} = 3\text{mA}, R_L = 100\Omega$			50	ns

Typical Characteristics



SOT-323 Package Information



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.800	1.100	0.031	0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.100	0.031	0.043
b	0.200	0.400	0.008	0.016
c	0.050	0.150	0.002	0.006
D	1.900	2.200	0.075	0.087
E	2.000	2.450	0.079	0.096
E1	1.150	1.350	0.045	0.053
e	0.650TYP.		0.026TYP.	
e1	1.200	1.400	0.047	0.055
L	0.200	0.460	0.008	0.018
θ	0°	8°	0°	8°