DEC

SWITCHING DIODE

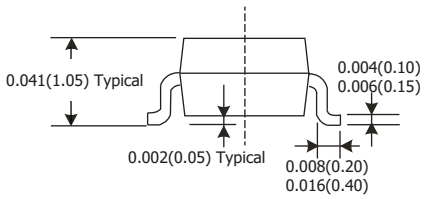
BAS21H

CURRENT 200 mA
VOLTAGE 250 V

Features

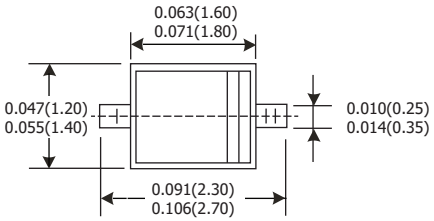
- Fast switching device
- Low leakage current
- Power dissipation of 200mW
- High stability and high reliability

SOD-323



Mechanical Data

- Case : SOD-323, Molded Plastic
- Case Material : "Green" MoldingCompound.
- UL Flammability Classification Rating 94V-0
- Marking : JS



Dimensions in inches and (millimeters)

Maximum Ratings (TA = 25°C unless otherwise noted)

Items	Symbols	Value	Units
Peak reverse voltage	V_{RM}	250	V
Continuous reverse voltage	V_R	250	V
Average rectified output current	I_O	200	mA
Non-repetitive peak forward surge current @t=1μs	I_{FSM}	20	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	625	°C/W
Operating junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-55 to + 150	°C

Electrical Characteristics (TA = 25°C unless otherwise noted)

Items	Symbols	Testconditions	Min	Max	Units
Reverse breakdown voltage	$V_{(BR)R}$	I_R=100μA	250		V
Reverse leakage current	I_R	V_R=200V		100	nA
Forward voltage	V_F	I_F=100mA		1	V
		I_F=200mA		1.25	
Total capacitance	C_T	V_R=0V , f=1.0MHz		5	pF
Reverse recovery time	T_{rr}	I_F=I_R=30mA , I_{RR}=0.1XI_R, R_L=100Ω		50	ns

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RATINGS AND CHARACTERISTIC CURVES BAS21H

FIG.1-POWER DERATING CURVE

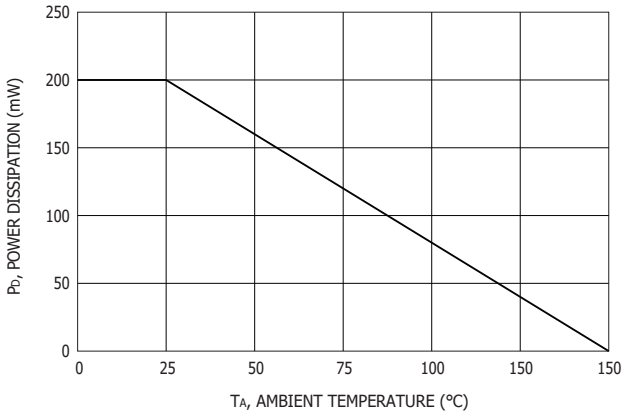


FIG.2-FORWARD CHARACTERISTICS

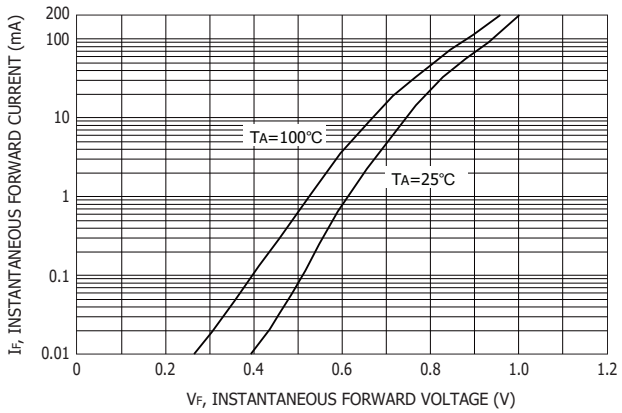


FIG.3-REVERSE CHARACTERISTICS

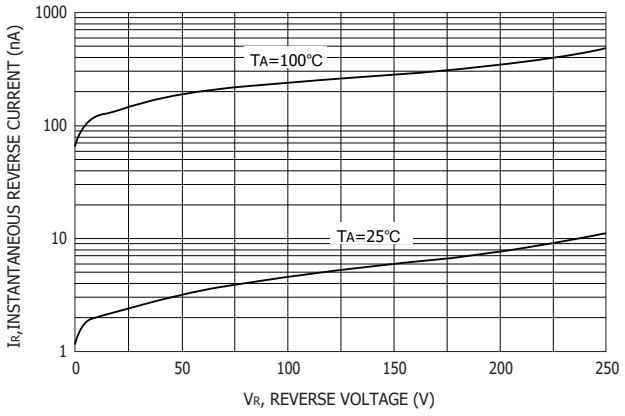
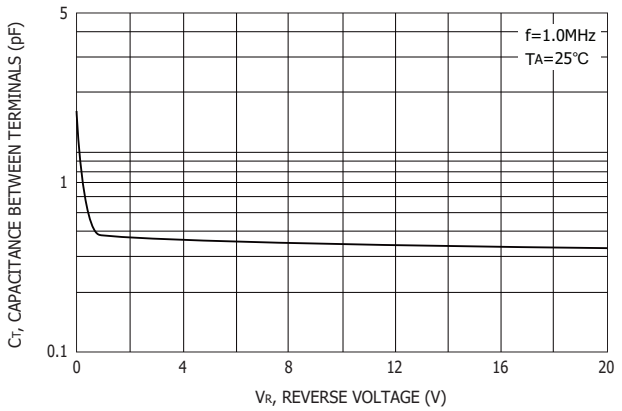


FIG.4-CAPACITANCE CHARACTERISTICS



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