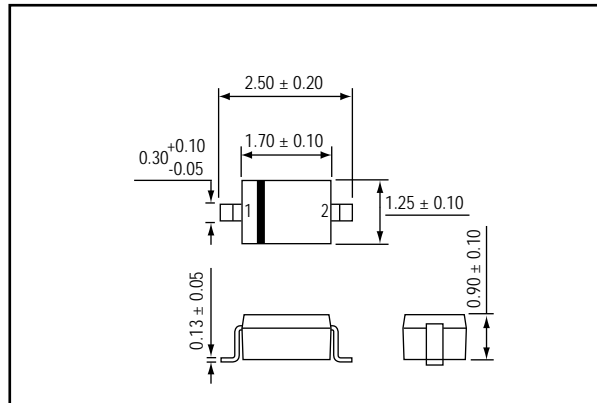


**HIGH VOLTAGE
SWITCHING DIODE**
Lead free product
BAS21HT1G

SOD-323


 CATHODE ANODE
 1 2

OUTLINE DIMENSIONS

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Continuous Reverse Voltage	VR	250	Vdc
Peak Forward Current	IF	200	mAdc
Peak Forward Surge Current	IFM(surge)	625	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max.	Unit
Total Device Dissipation FR-5 Board, * TA=25°C Derate above 25°C	PD	200 1.57	mW mW / °C
Thermal Resistance, Junction to Ambient	R JA	635	°C / W
Junction and Storage Temperature Range	TJ,TSTG	-55 to +150	°C

*FR-5 Minimum Pad

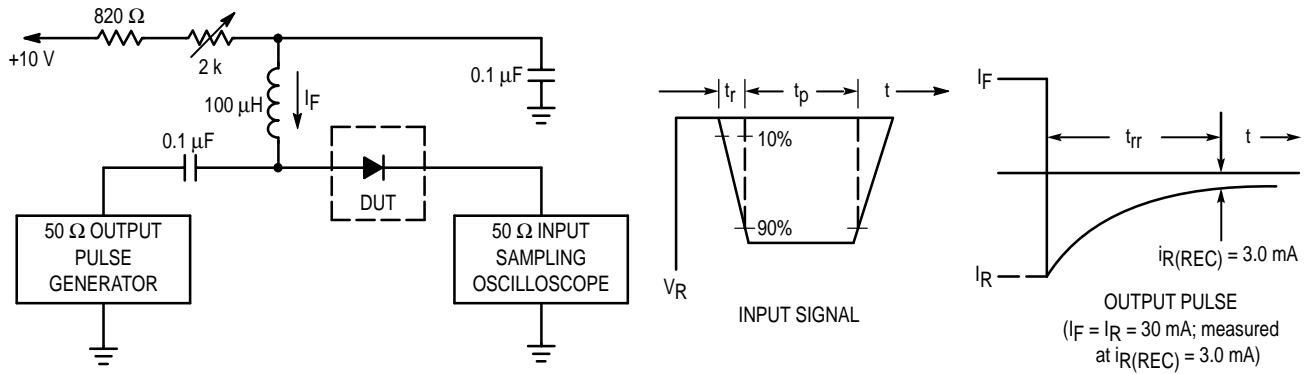
ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Characteristic	Symbol	Min.	Max.	Unit
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OFF CHARACTERISTICS

Reverse Breakdown Voltage (IBR=100uAdc)	V(BR)	250	-	Vdc
Forward Voltage (IF=100 mAdc) (IF=200 mAdc)	VF	- -	1000 1250	mVdc
Reverse Voltage Leakage Current (VR= 200 Vdc) (VR= 200 Vdc, TJ=150°C)	IR	- -	1.0 100	uAdc
Diode Capacitance (VR=0, f=1.0MHZ)	CD	-	5.0	pF
Reverse Recovery Time (IF=IR=30 mAdc, RL=100)	trr	-	50	nS

FIGURE 1. RECOVERY TIME EQUIVALENT TEST CIRCUIT



- Notes : 1. A 2.0 k variable resistor adjusted for a Forward Current (I_F) of 30 mA.
- 2. Input pulse is adjusted so $I_R(\text{peak})$ is equal to 30 mA.
- 3. $t_p \gg t_{rr}$

FIGURE 2. FORWARD VOLTAGE

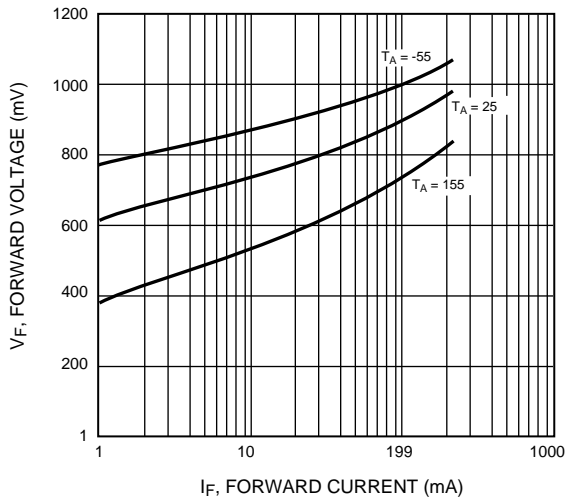


FIGURE 3. REVERSE LEAKAGE

