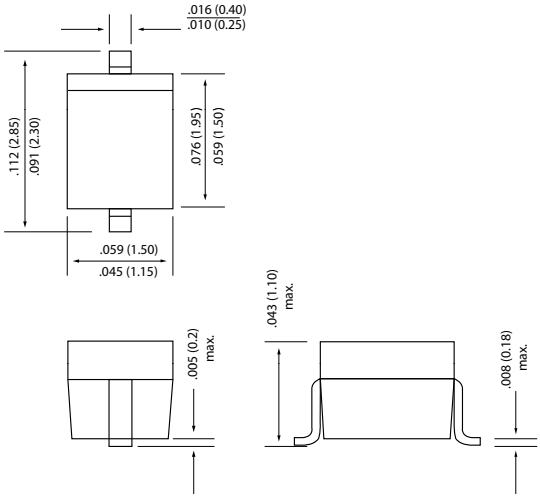
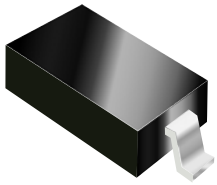
BAS20H

Surface Mount Switching Diode



SOD-323

Dimensions in inches and (millimeters)



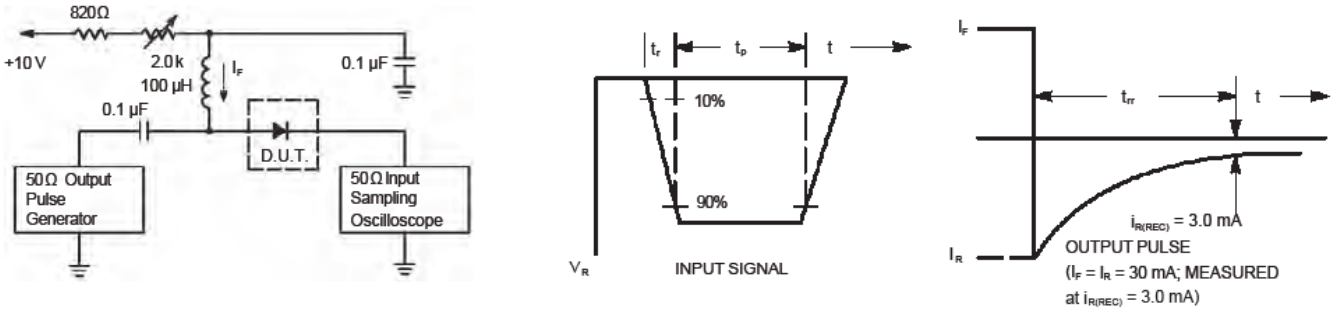
Ordering Information	
Part Number	**Remark**
BAS20H	**Normal**
BAS20H-H	**Green Compound**

Features

- We declare that the material of product compliance with RoHS requirements.
- Marking : JR

Absolute Maximum Ratings TA = 25°C unless otherwise noted			
PARAMETER	**SYMBOL**	**Value**	**Unit**
Continuous Reverse Voltage	V_R	200	V
Peak Forward Current	I_F	200	mA
Peak Forward Surge Current	$I_{FM(surge)}$	625	mA
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	RθJA	635	°C/W
Junction and Storage Temperature Range stg	TJ, Tstg	-55 ~ 150	°C

Electrical Characteristics TA = 25°C unless otherwise noted					
PARAMETER	**SYMBOL**	**Min**	**Max**	**Unit**	**Test Condition**
Reverse Voltage Leakage Current	IR		1 100	uA	VR = 200V VR = 200 Vdc, TJ = 150°C)
Reverse Breakdown Voltage	V_{BR}	200		V	IBR = 100 μAdc
Forward Voltage	I_{RM}	-	1000 1250	mV	IF = 100 mAdc IF = 200 mAdc
Diode Capacitance	C_T	-	5	pF	VR = 0, f = 1.0 MHz
Reverse Recovery Time	trr	-	50	ns	IF = IR = 30 mAdc, RL = 100 Ω



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

Figure 1. Recovery Time Equivalent Test Circuit

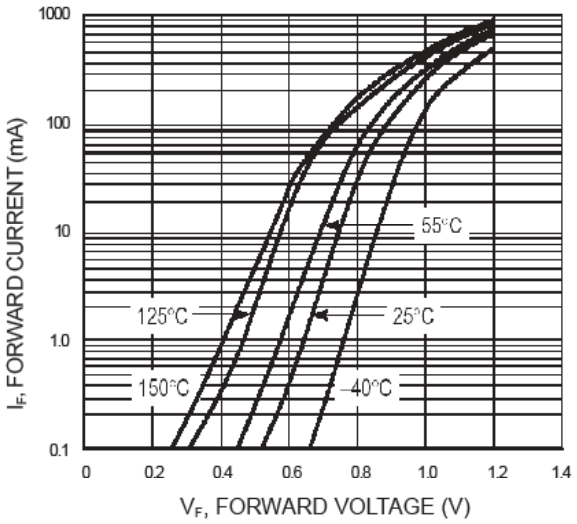


Figure 2. Forward Current

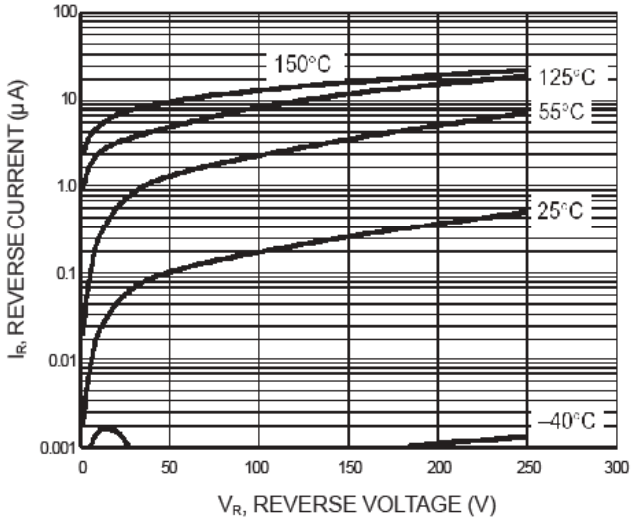


Figure 3. Leakage Current

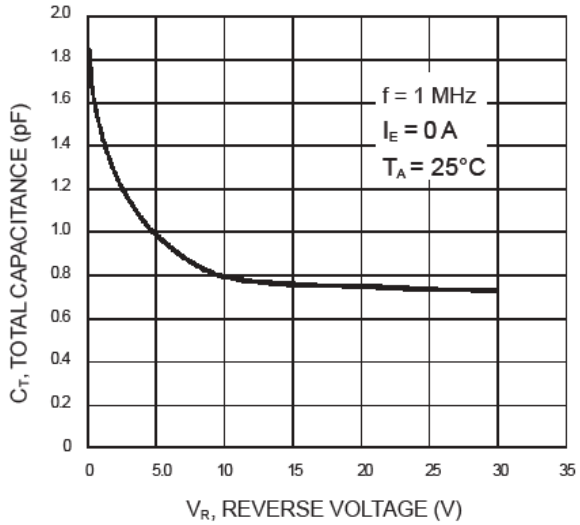


Figure 4. Total Capacitance

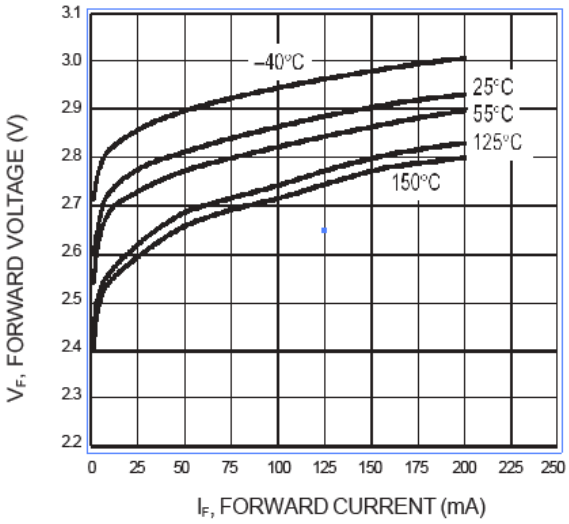


Figure 5. Forward Voltage