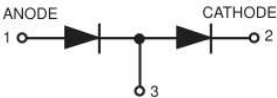
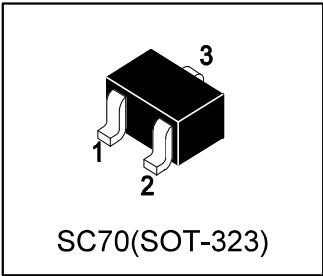


SWITCHING DIODE

FEATURES

- For high-speed switching applications
- Connected in series
- Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1**



Maximum Ratings @Ta=25°C

Parameter	Symbol	Limits	Unit
Reverse Voltage	VR	100	V
Forward Current	IF	215	mA
Peak Forward Surge Current	IFM(surge)	500	mA
Repetitive Peak Reverse Voltage	VRRM	100	V
Repetitive Peak Forward Current	IFRM	450	mA
Non-Repetitive Peak Forward Current	IFSM		A
t=1μs		2	
t=1ms		1	
t=1s		0.5	

THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation, FR-5 Board (Note 1) @ TA = 25°C Derate above 25°C	PD	200 1.6	mW mW/°C
Thermal Resistance Junction-to-Ambient(Note 1)	RθJA	625	°C/W
Junction and Storage temperature	TJ, Tstg	-65~+150	°C

1. FR-5 = 1.0×0.75×0.062 in.



SOT-323 Plastic-Encapsulate Diodes

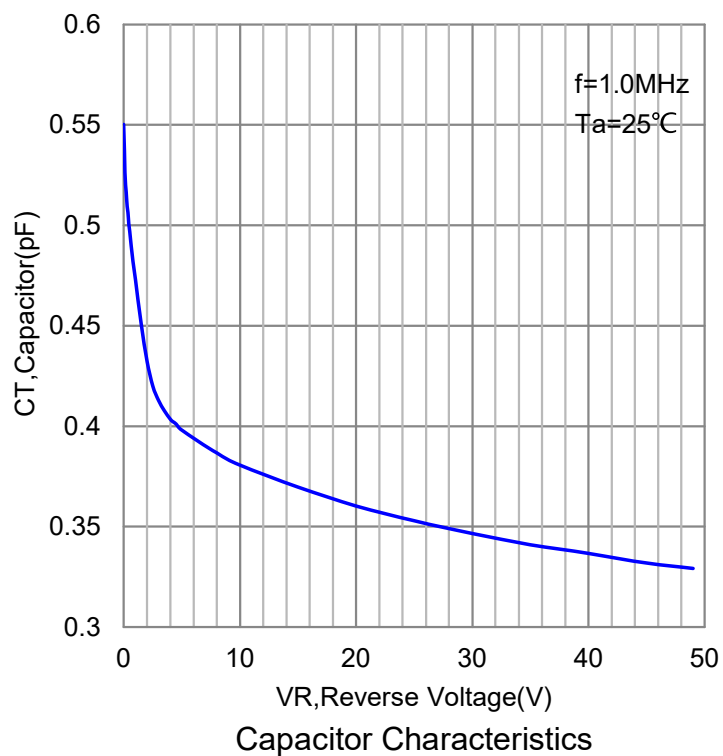
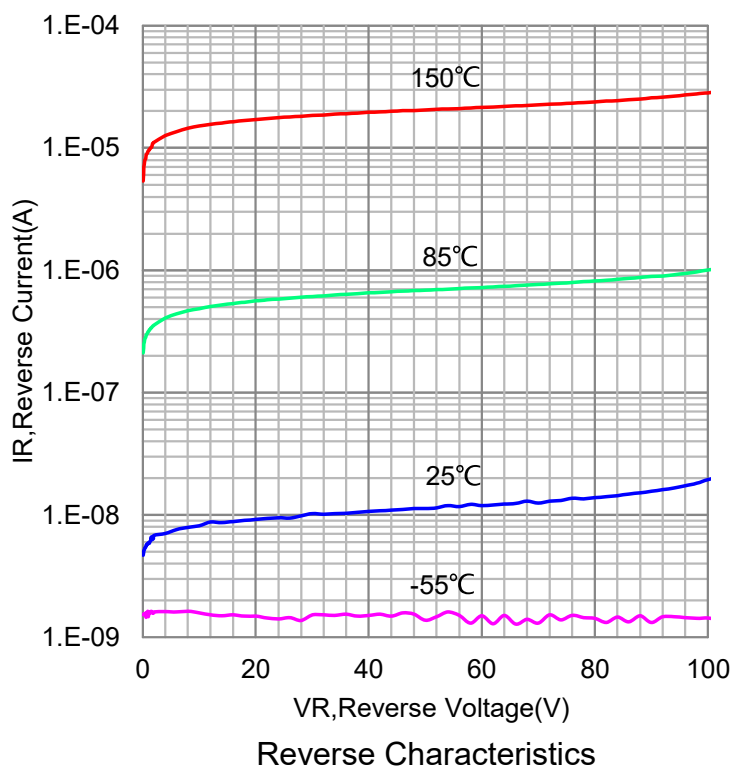
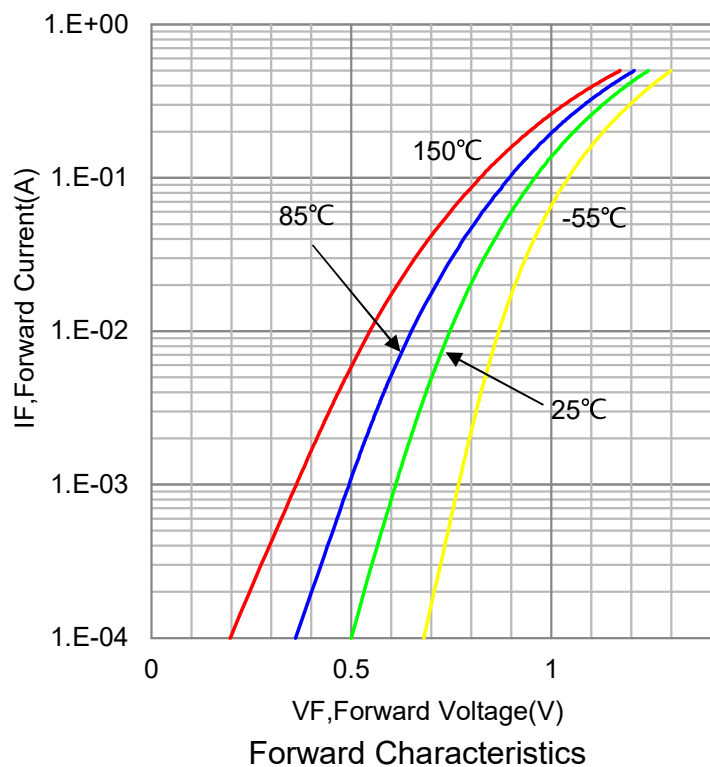
ELECTRICAL CHARACTERISTICS (Ta= 25° C)

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage (I(BR)=100μA)	VBR	100	-	-	V
Reverse Voltage Leakage Current (VR = 70V) (VR = 100V) (VR = 70V, TJ = 150°C) (VR = 25V, TJ = 150°C)	IR	- - - -	- - - -	2.5 5 50 30	μA
Diode Capacitance (VR = 0V, f = 1.0 MHz)	CD	-	-	1.5	pF
Forward Voltage (IF = 1.0 mA) (IF = 10 mA) (IF = 50 mA) (IF = 150 mA)	VF	- - - -	- - - -	715 855 1000 1250	mV
Reverse Recovery Time, RL =50Ω (IF =IR =10 mA, iR(REC) =1.0mA)	trr	-	-	6.0	ns
Forward Recovery Voltage (IF = 10 mA, tr = 20 ns)	VFR	-	-	1.75	V



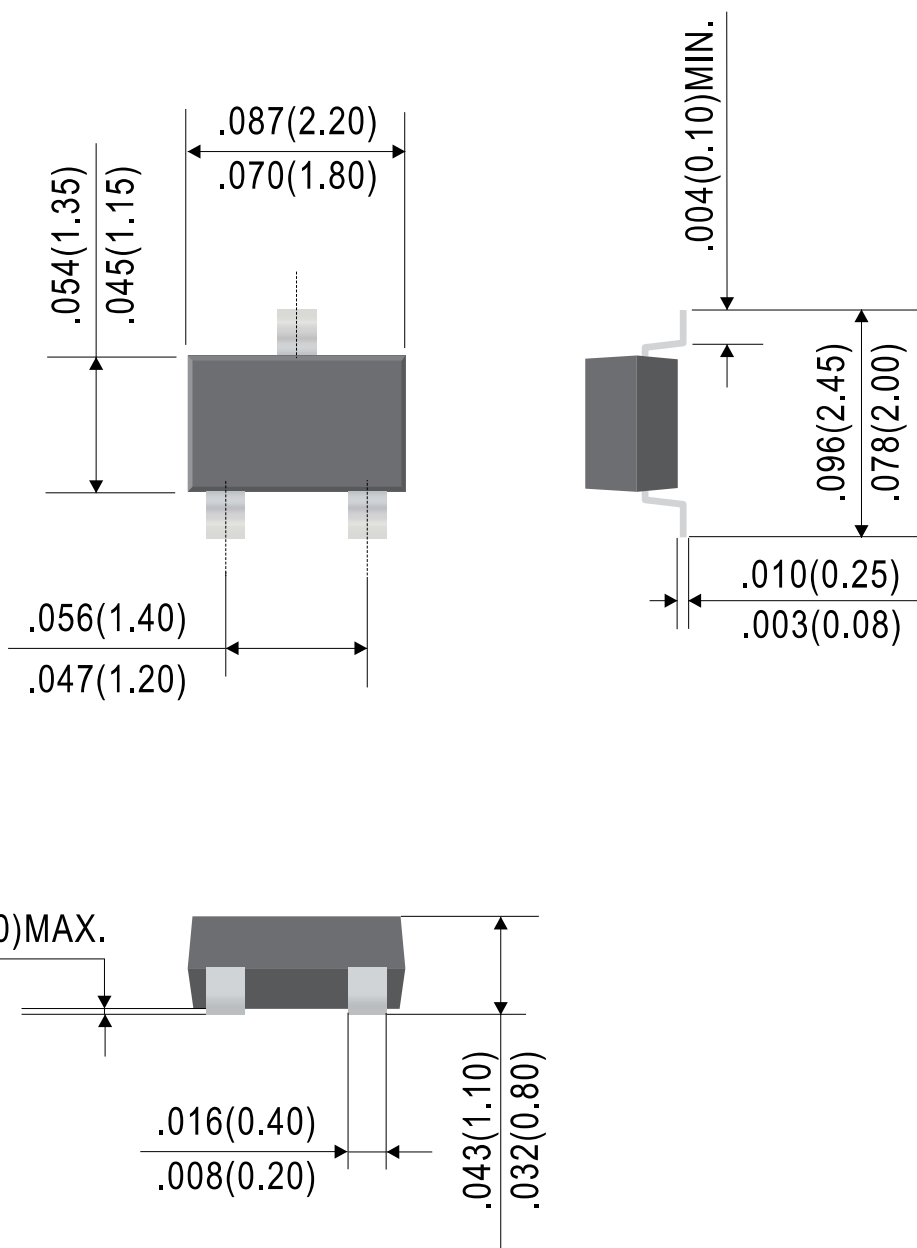
SOT-323 Plastic-Encapsulate Diodes

ELECTRICAL CHARACTERISTICS CURVES



Outline Drawing

SOT-323



Dimensions in inches and (millimeters)

Rev.D

Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
BAV99W-T⁽¹⁾H⁽²⁾-WS⁽³⁾	A7	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing.

(2) Packing code suffix "G" for RoHS product ; Packing code Suffix "H" for halogen free product.
All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals.

(3) Willas brand abbreviation, Label Type does not display.

(4) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device.

Disclaimer

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