

BAV99W

200mW Surface Mount Switching Diode- 75V

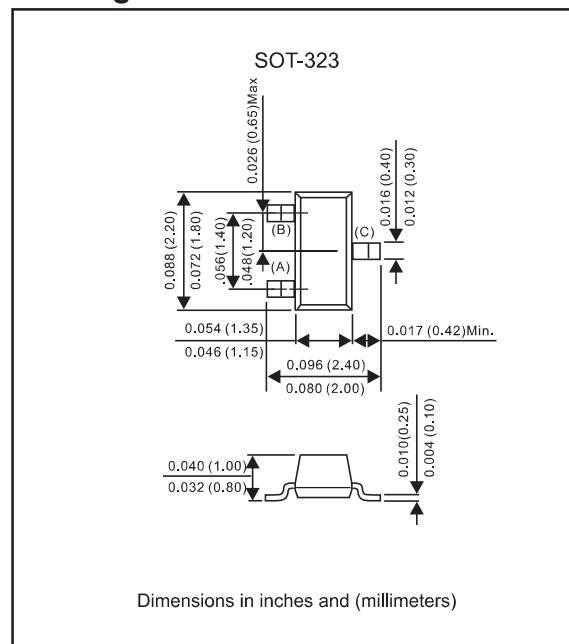
Features

- Fast speed switching.
- For general purpose switching application.
- High conductance.
- Silicon epitaxial planar chip.
- Lead-free parts meet RoHS requirements.
- Suffix "-H" indicates Halogen-free parts, ex. BAV99W-H.

Mechanical data

- Epoxy: UL94-V0 rated flame retardant
- Case : Molded plastic, SOT-323
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Mounting Position : Any
- Weight : Approximated 0.006 gram

Package outline

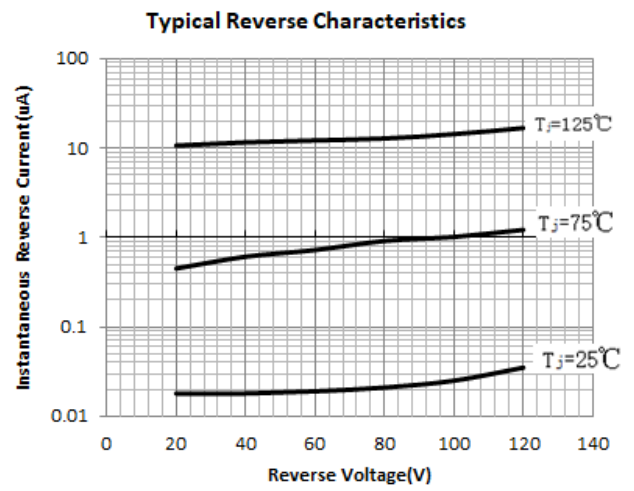
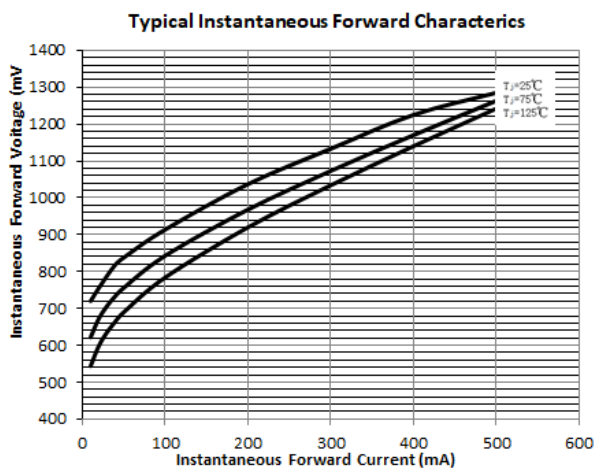


Maximum ratings and Electrical Characteristics (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Item	Symbol	Unit	Value
Peak Reverse Voltage	V_{RRM}	V	100
Reverse Voltage	V_R	V	75
Peak Forward Current	I_{FAV}	mA	150
Thermal Resistance from Junction to Ambient	$R\theta_{JA}$	$^{\circ}\text{C}/\text{W}$	625
Operation Junction Temperature	T_J	$^{\circ}\text{C}$	-55 to +150
Storage Temperature	T_{STG}	$^{\circ}\text{C}$	-55 to +150

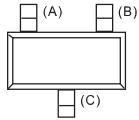
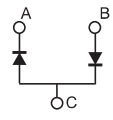
Item	Symbol	Unit	Conditions	Value
Reverse Voltage	V_R	V	$I_R=100\mu\text{A}$	75
Maximum Instantaneous Forward Voltage	V_F	V	$I_F=1\text{mA}$	0.715
			$I_F=10\text{mA}$	0.855
			$I_F=50\text{mA}$	1.0
			$I_F=150\text{mA}$	1.25
Maximum DC Reverse Current	I_R	μA	$V_R=75\text{V}$	2.5
Typical Junction Capacitance	C_J	pF	$f=1.0\text{MHz}$, $V_R=0\text{V}$	2
Reverse Recovery Time	T_{rr}	ns	$I_F=I_R=10\text{mA}$ $I_{rr}=0.1 \cdot I_R$, $R_L=100\Omega$	4

Rating and characteristic curves for each diode



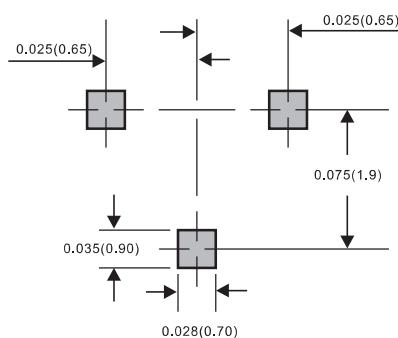
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Pinning information

Type number	Marking code	Simplified outline	Symbol
BAV99W	KJG		

Suggested solder pad layout

SOT-323



Dimensions in inches and (millimeters)

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (m/m)	BOX (pcs)	INNER BOX (m/m)	REEL DIA, (m/m)	CARTON SIZE (m/m)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SOT-323	7"	3,000	4.0	30,000	183*183*123	178	382*262*387	240,000	9.5