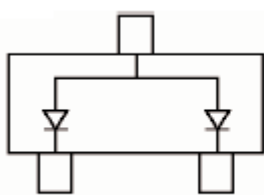
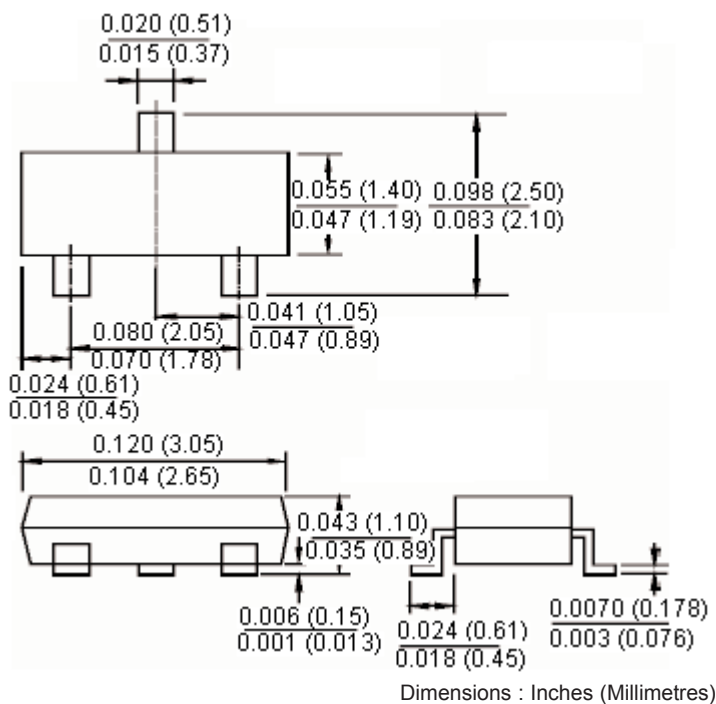


Features:

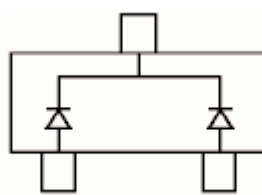
- Fast switching speed.
- Surface mount package ideally suited for automatic insertion.
- For general purpose switching applications.
- High conductance.



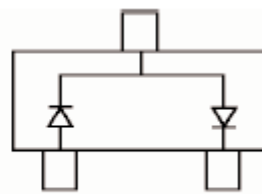
SOT-23



BAW56 Marking: A1



BAV70 Marking: A4



BAV99 Marking: A7

Mechanical Data

Case : SOT-23, moulded plastic.
 Terminals : Solderable per MIL-STD-202, Method 208.
 Polarity : See diagram.
 Marking : BAW56: A1, BAV70: A4, BAV99: A7.
 Weight : 0.008 gram (approximately).

Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Type Number	Symbol	BAW56/BAV70/BAV99	Units
Reverse Voltage	V_R	75	V
Forward Current	I_F	200	mA
Peak Forward Surge Current	$I_{FM (surge)}$	500	
Power Dissipation	P_D	225	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	556	$^\circ\text{C/W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to 150	

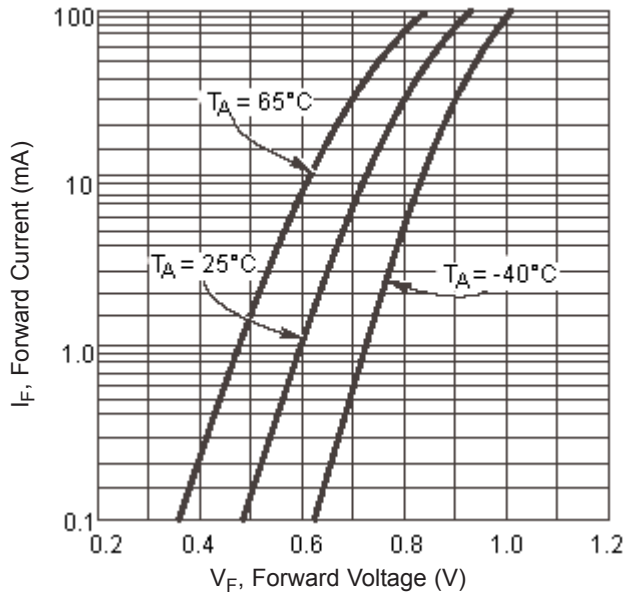
Electrical Characteristics

Type Number	Symbol	Minimum	Maximum	Units	
Reverse Breakdown Voltage $I_R = 100\mu\text{A}$	V_R	75	-	V	
Forward Voltage $I_F = 1.0\text{mA}$ $I_F = 10\text{mA}$ $I_F = 50\text{mA}$ $I_F = 150\text{mA}$	V_F	-	0.715 0.855 1.0 1.25		
Reverse Current $V_R = 25\text{V}$ $V_R = 75\text{V}$	I_R	-	30 2		nA μA
Capacitance between terminals $V_R = 0, f = 1.0\text{MHz}$	C_j	-	1.5		pF
Reverse Recovery Time (Note 1)	t_{rr}	-	6.0	nS	

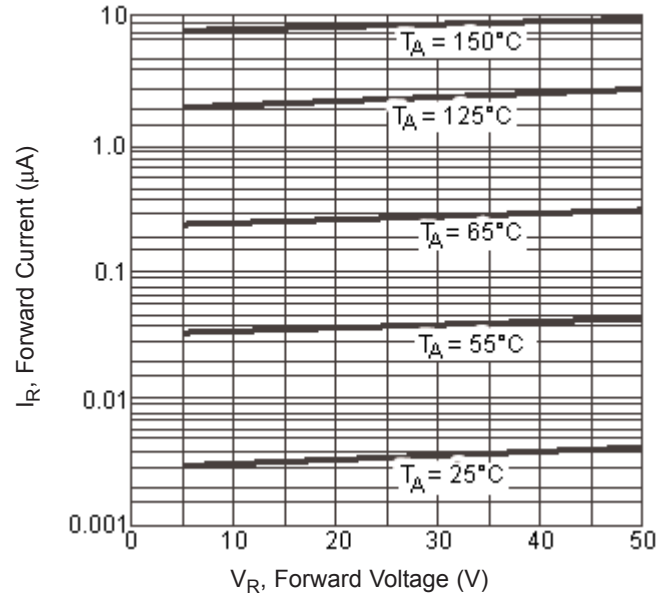
Note 1: Reverse Recovery Test Conditions: $I_F = I_R = 10\text{mA}$, $I_{rr} = 0.1 \times I_R$, $R_L = 100\Omega$.

Ratings and Characteristic Curves (BAW56/BAV70/BAV99)

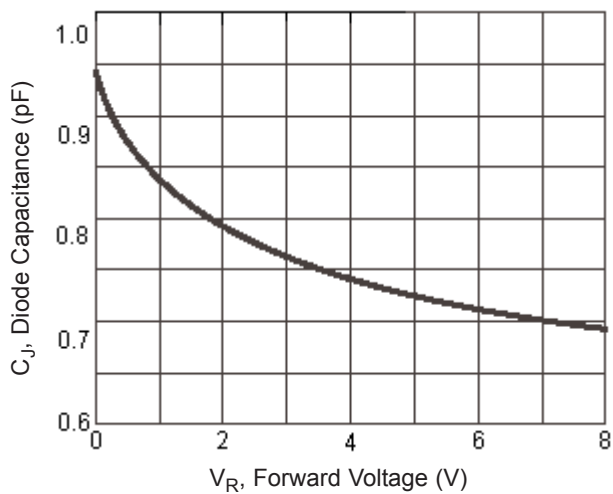
Typical Forward Voltage



Typical Leakage Current



Typical Capacitance



Part Number Table

Description	Part Number
Diode, Schottky, SOT-23	BAV70
Diode, Schottky, SOT-23	BAV99
Diode, Schottky, SOT-23	BAW56

Notes:

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