

<b>THERMAL PERFORMANCE</b>			
<b>PARAMETER</b>	<b>SYMBOL</b>	<b>TYP</b>	<b>UNIT</b>
Junction-to-ambient thermal resistance	$R_{\theta JA}$	556	$^{\circ}\text{C/W}$

<b>ELECTRICAL SPECIFICATIONS</b> ( $T_A = 25^{\circ}\text{C}$ unless otherwise noted)						
<b>PARAMETER</b>	<b>CONDITIONS</b>	<b>SYMBOL</b>	<b>MIN</b>	<b>MAX</b>	<b>UNIT</b>	
Forward voltage per diode <sup>(1)</sup>	$I_F = 50\text{mA}, T_J = 25^{\circ}\text{C}$	$V_F$	-	1.00	V	
	$I_F = 150\text{mA}, T_J = 25^{\circ}\text{C}$			1.25		
Reverse voltage	$I_R = 100\ \mu\text{A}, T_J = 25^{\circ}\text{C}$	$V_R$	70	-	V	
Reverse current @ rated $V_R$ per diode <sup>(2)</sup>	$V_R = 70\ \text{V}, T_J = 25^{\circ}\text{C}$	$I_R$	-	2.5	$\mu\text{A}$	
Junction capacitance	BAW56, BAV70	$f=1\ \text{MHz}, V_R=1\text{V}$	$C_J$	-	2	pF
	BAV99			-	1.5	
Reverse recovery time	$I_F=I_R= 10\text{mA}, R_L= 100\Omega,$ $I_{RR}= 1\text{mA}$	$t_{rr}$	-	6	ns	

**Notes:**

1. Pulse test with  $PW=0.3\ \text{ms}$
2. Pulse test with  $PW=30\ \text{ms}$

<b>ORDERING INFORMATION</b>		
<b>ORDERING CODE</b>	<b>PACKAGE</b>	<b>PACKING</b>
BAxxx RF	SOT-23	3K / 7" Reel
BAxxx RFG	SOT-23	3K / 7" Reel
BAxxx-B0 RF	SOT-23	3K / 7" Reel
BAxxx-B0 RFG	SOT-23	3K / 7" Reel
BAxxx-D0 RF	SOT-23	3K / 7" Reel
BAxxx-D0 RFG	SOT-23	3K / 7" Reel

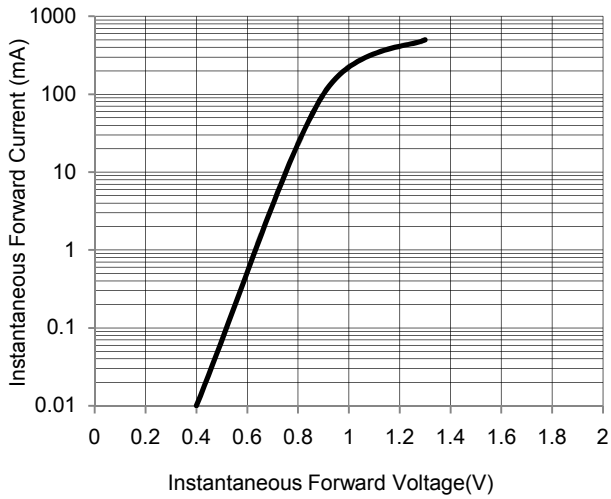
**Notes:**

1. "xx" is device code from "W56" to "V99"
2. "G" means green compound (halogen free)

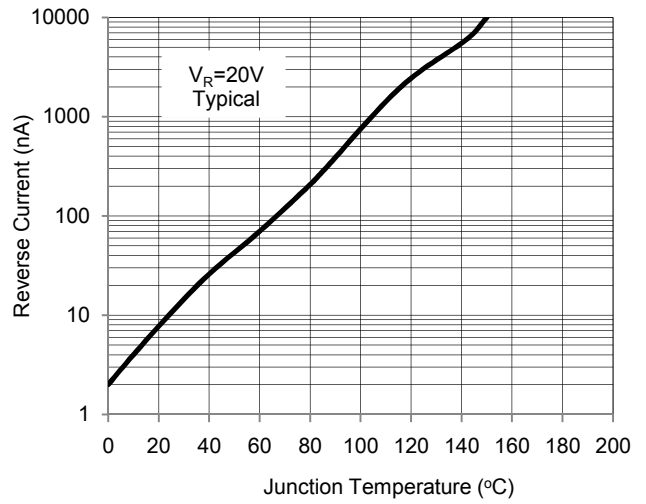
**CHARACTERISTICS CURVES**

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

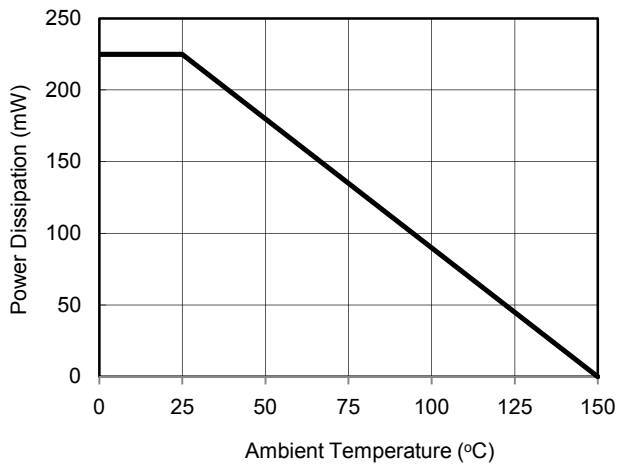
**Fig.1 Typical Forward Characteristics**



**Fig. 2 Reverse Current VS. Junction Temperature**

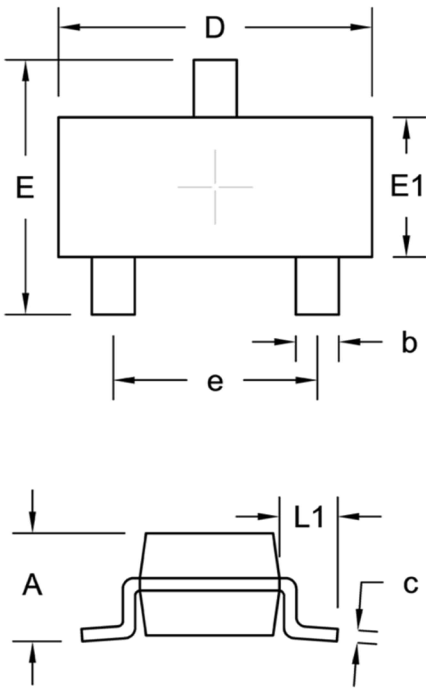


**Fig.3 Admissible Power Dissipation Curve**



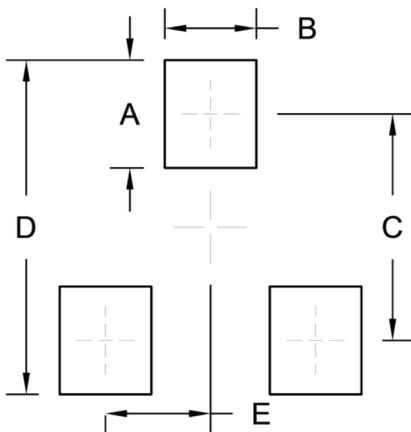
**PACKAGE OUTLINE DIMENSION**

SOT-23



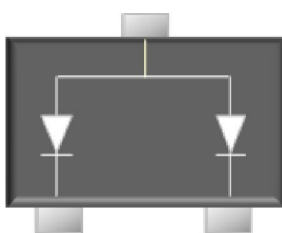
DIM.	Unit (mm)		Unit (inch)	
	Min.	Max.	Min.	Max.
A	0.89	1.12	0.035	0.044
b	0.30	0.50	0.012	0.020
c	0.08	0.20	0.003	0.008
D	2.80	3.04	0.110	0.120
E	2.10	2.64	0.083	0.104
E1	1.20	1.40	0.047	0.055
e	1.90 BSC		0.075 BSC	
L1	0.54 REF.		0.021 REF.	

**SUGGESTED PAD LAYOUT**

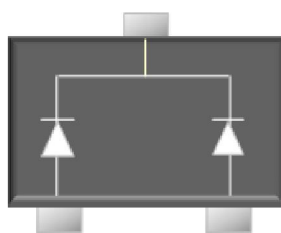


Symbol	Unit (mm)	Unit (inch)
A	1.00	0.039
B	0.85	0.033
C	2.10	0.083
D	3.10	0.122
E	0.98	0.039

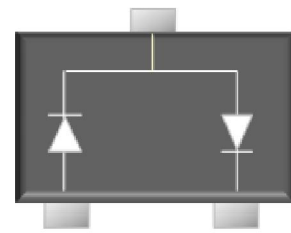
**PIN CONFIGURATION**



**BAW56**



**BAV70**



**BAV99**

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