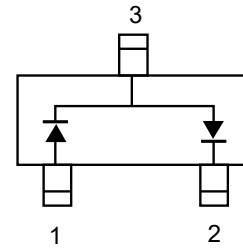
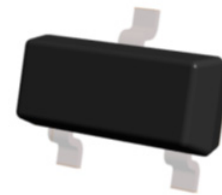


**Description**

The BAV99LT1 is a dual series switching diode  
Pb-Free Packages are available


**Feature**

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance


**Electrical characteristics per line@25°C ( unless otherwise specified)**

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{BR}$	$I_R = 100\mu A$	70			V
Reverse Leakage Current	$I_R$	$V_R = 70V$			2.5	$\mu A$
Forward Voltage	$V_F$	$I_F = 1mA$			0.715	V
		$I_F = 10mA$			0.855	
		$I_F = 50mA$			1.0	
		$I_F = 150mA$			1.25	
Reverse Recovery Time	$t_{rr}$	$I_F = I_R = 10mA,$ $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$			6.0	ns
Capacitance Between Terminals	$C_T$	$V_R = 0V, f = 1MHz$			1.5	pF

**Absolute maximum rating@25°C**

Rating	Symbol	Value	Units
Reverse Voltage	$V_R$	70	V
Forward Current	$I_F$	200	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3ms$	$I_{FSM}$	2.0	A
Power Dissipation	$P_D$	225	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	556	$^{\circ}C/W$
Junction Temperature	$T_J$	150	$^{\circ}C$
Storage Temperature Rang	$T_{STG}$	-55 to +150	$^{\circ}C$

Typical Characteristics

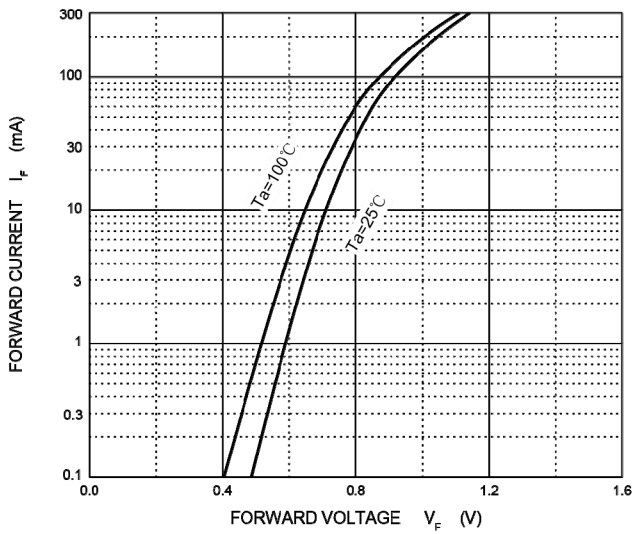


Fig 1 Forward Characteristics

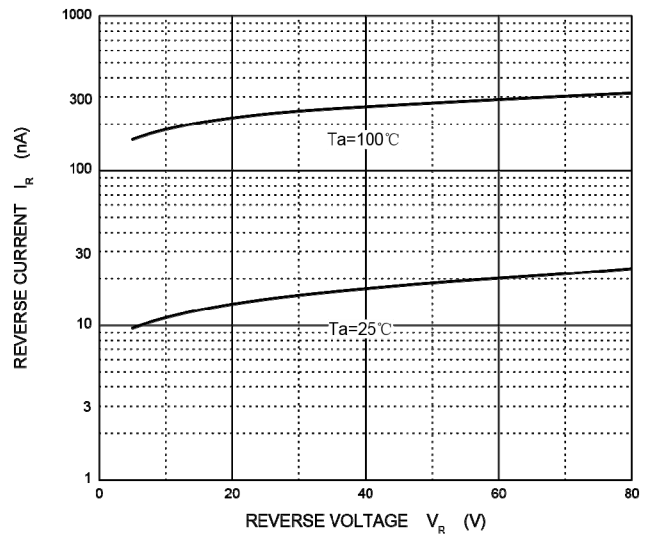


Fig 2 Reverse Characteristics

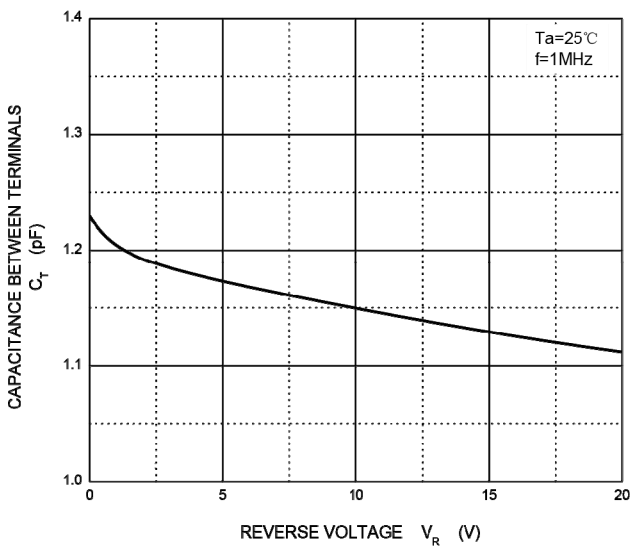


Fig 3 Capacitance Characteristics

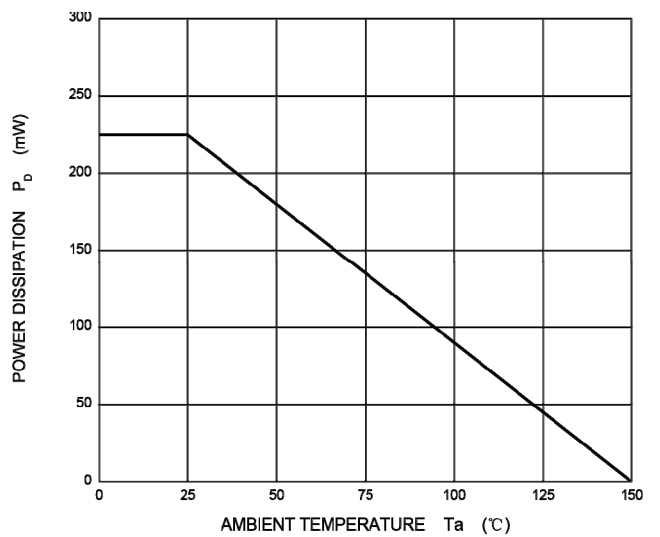
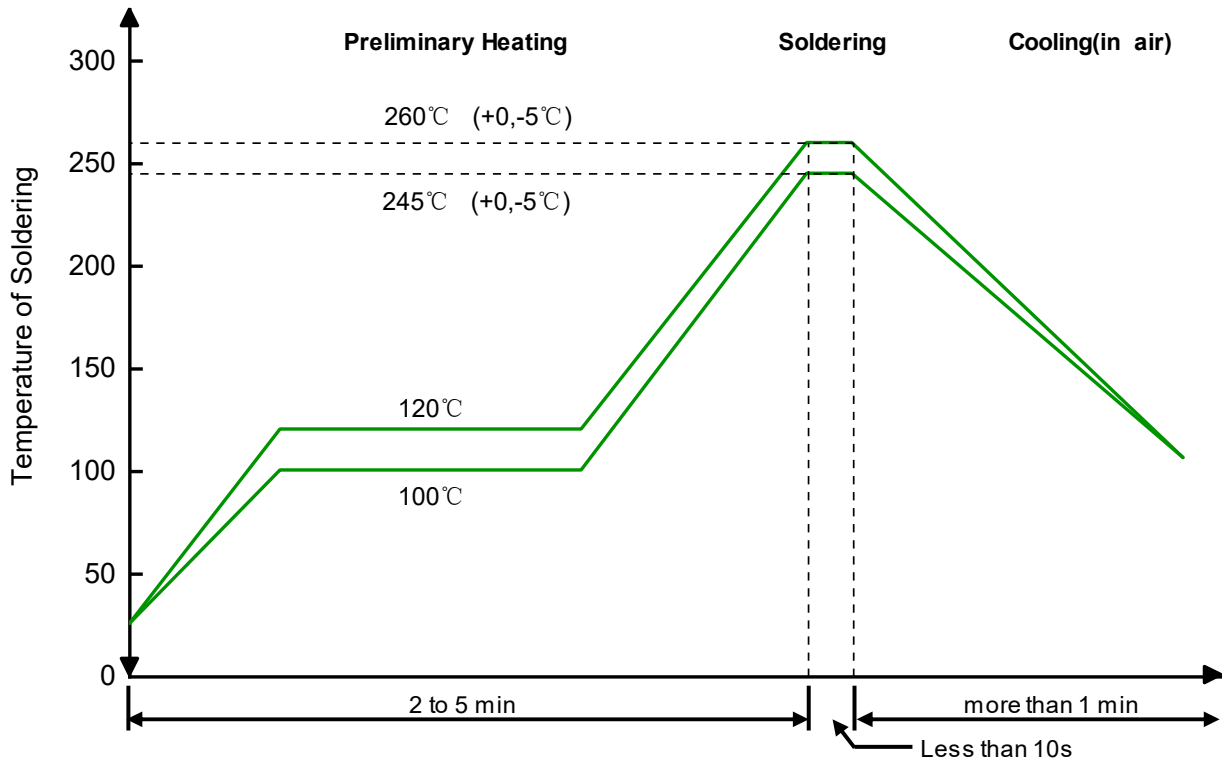


Fig 4 Power Derating Curve

Solder Reflow Recommendation

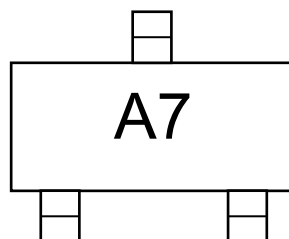


Remark: Pb free for 260°C; Pb for 245°C.

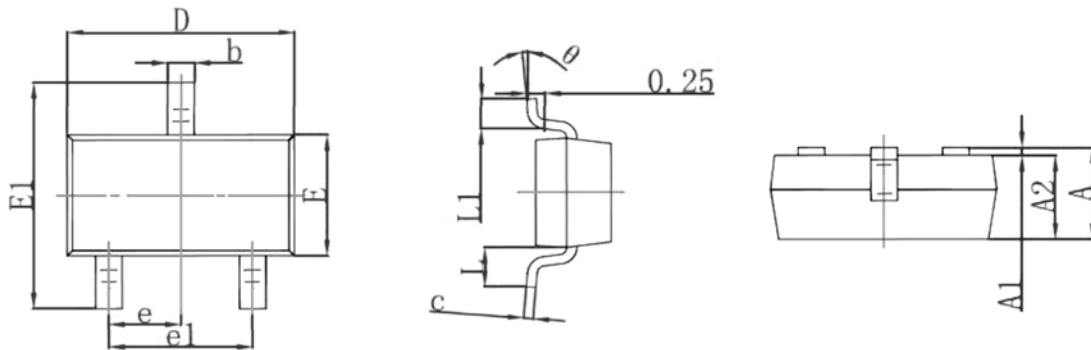
Ordering information

Device	Package	Shipping
BAV99LT1	SOT-23 (Pb-Free)	3000 / Tape & Reel

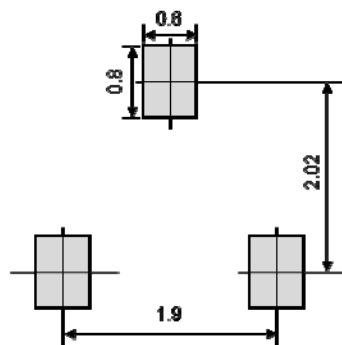
Marking information



Product dimension(SOT-23)




Dim	Millimeters		Inches	
	MIN	MAX	MIN	MAX
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 Typ.		0.037 Typ.	
e1	1.800	2.000	0.071	0.079
L	0.550 Ref.		0.022 Ref.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°



Suggested PCB Layout

Unit:mm


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