BAV74LT1G

Monolithic Dual Switching Diode

Features

• These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant

MAXIMUM RATINGS (EACH DIODE)

Rating	Symbol	Value	Unit
Reverse Voltage	V _R	50	Vdc
Forward Current	١ _F	200	mAdc
Peak Forward Surge Current	I _{FM(surge)}	500	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Total Device Dissipation FR-5 Board (Note 1), $T_A = 25^{\circ}C$ Derate above 25°C	P _D	225 1.8	mW mW/°C
Thermal Resistance, Junction-to-Ambient	R_{\thetaJA}	556	°C/W
Total Device Dissipation Alumina Substrate, (Note 2) $T_A = 25^{\circ}C$ Derate above 25°C	P _D	300 2.4	mW mW/°C
Thermal Resistance, Junction-to-Ambient	$R_{\theta JA}$	417	°C/W
Junction and Storage Temperature	T _J , T _{stg}	-55 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

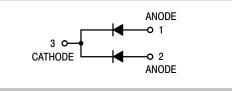
1. FR-5 = $1.0 \times 0.75 \times 0.062$ in.

2. Alumina = $0.4 \times 0.3 \times 0.024$ in 99.5% alumina.



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SOT-23 (TO-236) CASE 318 STYLE 9

MARKING DIAGRAM



JA = Device Code M = Date Code*

= Pb–Free Package

(Note: Microdot may be in either location) *Date Code orientation and/or overbar may vary depending upon manufacturing location.

ORDERING INFORMATION

Device	Package	Shipping [†]
BAV74LT1G	SOT–23 (Pb–Free)	3000/Tape & Reel
BAV74LT3G	SOT–23 (Pb–Free)	10,000/Tape & Reel

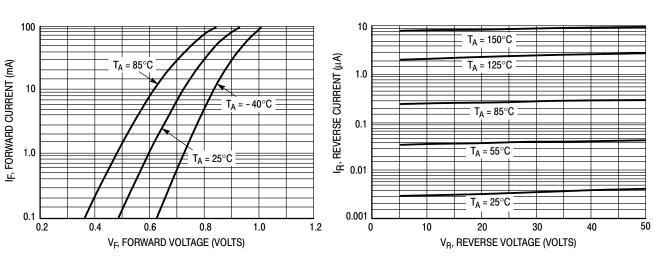
+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

BAV74LT1G

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted) (EACH DIODE)

Characteristic	Symbol	Min	Max	Unit			
OFF CHARACTERISTICS							
Reverse Breakdown Voltage $(I_{(BR)} = 5.0 \ \mu Adc)$	V _(BR)	50	-	Vdc			
Reverse Voltage Leakage Current, (Note 3) ($V_R = 50 \text{ Vdc}, T_J = 125^{\circ}\text{C}$) ($V_R = 50 \text{ Vdc}$)	۱ _R		100 0.1	μAdc			
Diode Capacitance $(V_R = 0, f = 1.0 \text{ MHz})$	CD	-	2.0	pF			
Forward Voltage (I _F = 100 mAdc)	V _F	-	1.0	Vdc			
Reverse Recovery Time ($I_F = I_R = 10 \text{ mAdc}$, $I_{R(REC)} = 1.0 \text{ mAdc}$, measured at $I_R = 1.0 \text{ mA}$, $R_L = 100 \Omega$)	t _{rr}	-	4.0	ns			

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions. 3. For each individual diode while the second diode is unbiased.



CURVES APPLICABLE TO EACH ANODE





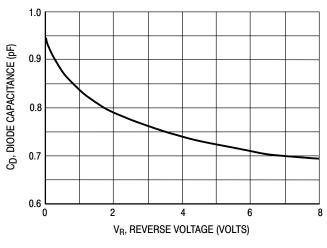


Figure 3. Capacitance





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