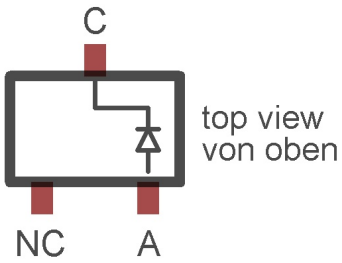
Datasheet BAL74

Planar Silicon Diode

the BAL74 is a single very fast switching diode for hybrid micro circuits.



Marking Code: JC

Absolute Ratings (Limiting Values)	
Continous Reverse Voltage V_R / V	50
Repetitive Peak Reverse Voltage V_{RRM} / V	60
Forward Current I_F / mA	150
Repetitive Peak Forward Current I_{FRM} / mA	200
Average Forward Current I_F(AV) (tp = 10mS/T=20mS) / mA	70
Surge Non Repetitive Forward Current I_{FSM} (t=1µS) / mA	4500
Power Dissipation P_{tot} / mW	200
Junction Temperature T_J / °C	150
Storage Temperature T_{STG} / °C	-65, +150

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Static Electrical Characteristics	
Forward Voltage V_F (I_F=100mA) / V	1
Breakdown Voltage U_{BR} (I_R=5µA) / V	60
Reverse Current I_R (V_R=50V) / nA	100
Reverse Current I_R (V_R=50V, T_j=125°C) / µA	100
Dynamic Electrical Characteristics	
Capacitance C (V_R=0V, f=1MHz) / pF	2
Reverse Recovery Time t_{rr} / nS (I_F=I_R=10mA, i_{rr}=1mA)	4
Reverse Recovery Time t_{rr} / nS (I_F=10mA, V_R=6V, R_L=100Ω, i_{rr}=1mA)	2
Thermal Characteristics	
$R_{th\ (j\text{-}a)}$ °C/W	625
$R_{th\ (j\text{-}SR)}$ °C/W	400
Mechanical Data	
Package	TO-236 (1.2x2.9mm)