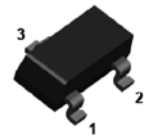
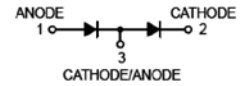


Dual Surface Mount Low Leakage Diode



Features:

- Medium Speed Current Applications
- Very Low Leakage Current
- Surface Mount Package Ideally Suited for Automatic Insertion



SOT-23

Applications:

Small signal switching

Max. Rating @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit	
Repetitive peak reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RMS} V_R	85	V	
RMS reverse voltage	$V_{R(RMS)}$	60	V	
Peak forward surge current	I_{FSM}	4 1 0.5	A	
Forward continuous current	Single diode Double diode	I_{FM}	160 140	mA
Repetitive peak forward current	I_{FRM}	500	mA	
Power dissipation	P_D	250	mW	
Thermal resistance junction to ambient air	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$	
Operating and storage temperature range	T_j, T_{STG}	-65 to +150	$^\circ\text{C}$	

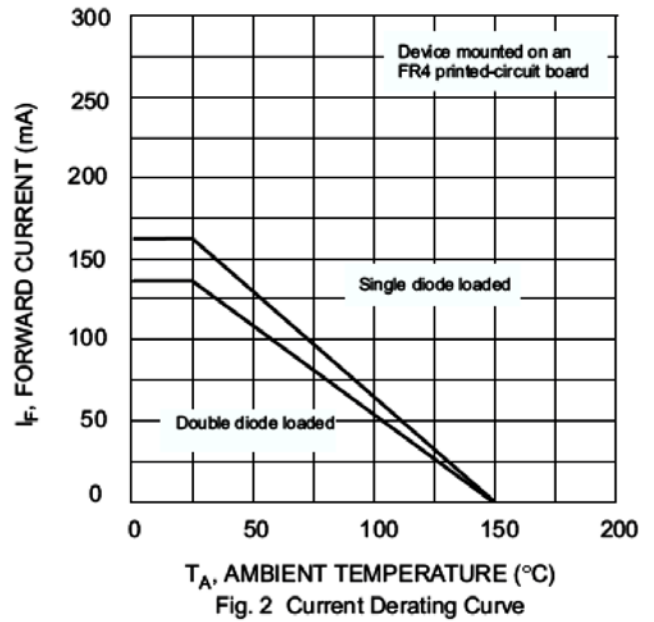
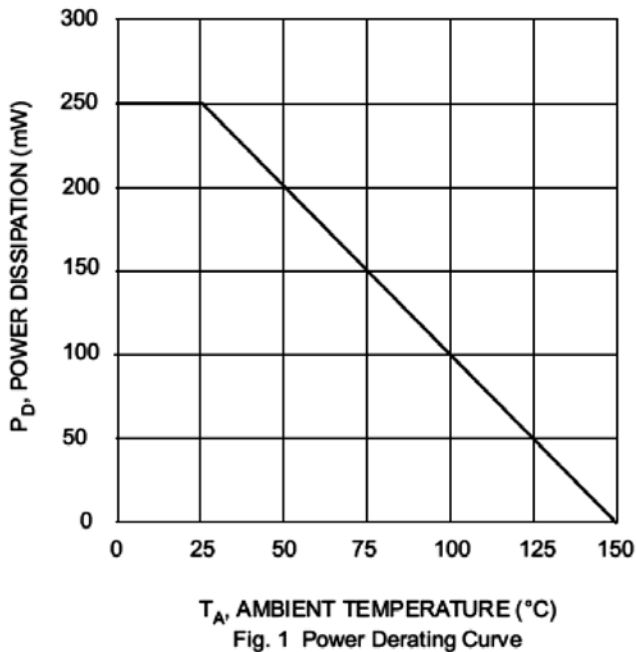
Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu\text{A}$	85	-	V
Reverse voltage leakage current	I_R	$V_r = 75\text{V}$ $V_r = 75\text{V}, T_j = 150^\circ\text{C}$	-	5 80	nA
Forward voltage	V_F	$I_F = 1\text{mA}$ $I_F = 10\text{mA}$ $I_F = 50\text{mA}$ $I_F = 150\text{mA}$	-	900 1,000 1,100 1,250	mV
Junction capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$	-	5	ns
Reverse recovery time	t_{rr}	$I_F = I_R = 10\text{mA}$, $I_{rr} = 0.1 \times I_R, R_L = 100\Omega$	-	3	pF

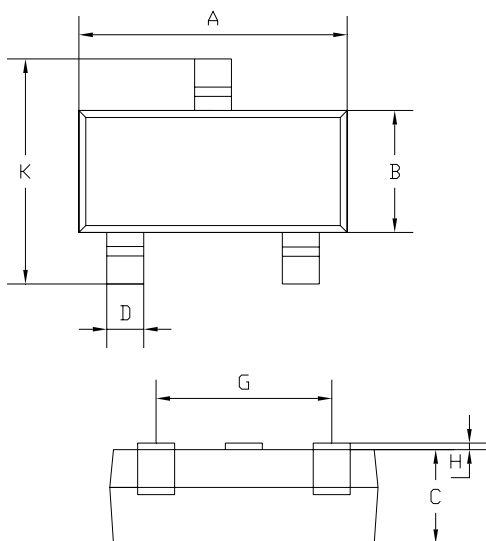
Dual Surface Mount Low Leakage Diode



Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified



Plastic surface mounted package



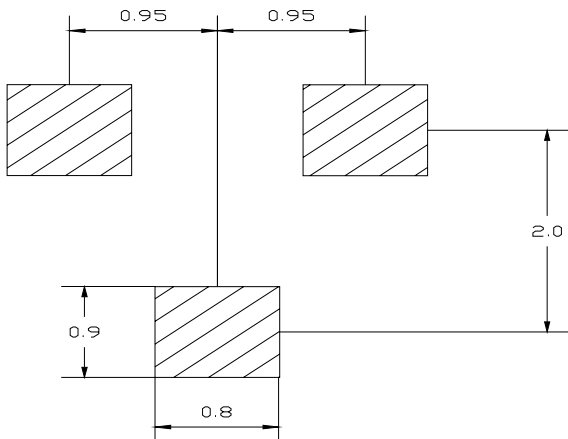
SOT-23		
Dim	Min	Max
A	2.85	2.95
B	1.25	1.35
C	1 Typical	
D	0.37	0.43
E	0.35	0.48
G	1.85	1.95
H	0.02	0.1
J	0.1 Typical	
K	2.35	2.45
All Dimensions in mm		



Dual Surface Mount Low Leakage Diode



Soldering Footprint



Unit : mm

Package Information

Device	Package	Shipping
BAV199-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Dual surface mount low leakage diode	BAV199-7-F

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