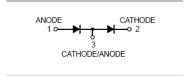
# Dual Surface Mount Low Leakage Diode









#### SOT-523

#### Features:

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

### **Applications:**

Small Signal Switching

#### **Maximum Ratings:**

Ratings at 25°C unless otherwise specified.

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage working peak reverse voltage DC Reverse voltage	Vrrm Vrwm Vr	85	V
RMS reverse voltage	VR(RMS)	60	V
Peak forward surge current at t=1µs at t=1ms at t=1s	IFSM	4 1 0.5	А
Forward continuous current single diode double diode	Іғм	160 140	mA
Repetitive peak forward current	IFRM	500	mA
Power dissipation	Po	150	mW
Thermal resistance junction to ambient air	RөJA	500	°C/W
Operating and storage temperature range	Т <sub>ј</sub> ,Тѕтс	-65 to +150	°C

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# Dual Surface Mount Low Leakage Diode



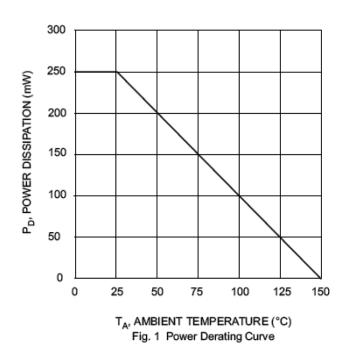
## **Electrical Characteristics:**

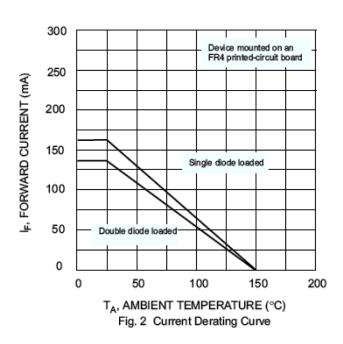
Ratings at 25°C unless otherwise specified

Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)	I <sub>R</sub> = 100μA	85	-	V
Reverse voltage leakage current	lr	V <sub>R</sub> =75V V <sub>R</sub> =75V T <sub>j</sub> =150°C	-	5 80	nA
Forward voltage	VF	IF=1mA IF=10mA IF=50mA IF=150mA	-	900 1,000 1,100 1,250	mV
Junction capacitance	Cj	V <sub>R</sub> =0V f=1MHz		2	pF
Reverse recovery time	trr	I <sub>F</sub> =I <sub>R</sub> =10mA I <sub>II</sub> =0.1 × I <sub>R</sub> R <sub>L</sub> =100Ω	-	3	μS

### **Typical Characteristics:**

T<sub>A</sub> = 25°C unless otherwise specified





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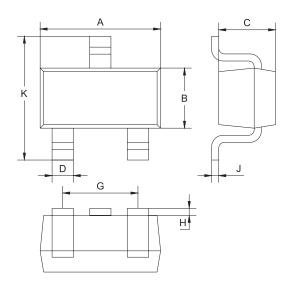


# Dual Surface Mount Low Leakage Diode



#### **Package Outline:**

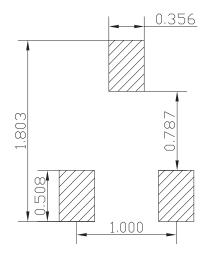
Plastic surface mounted package



SOT-523			
Dim.	Min.	Max.	
А	1.5	1.7	
В	0.75	0.85	
С	0.6	0.8	
D	0.15	0.3	
G	0.9	1.1	
Н	0.02	0.1	
J	0.1 Typ.		
К	1.45	1.75	

Dimensions: Millimetres

### **Soldering Footprint:**



Dimensions : Millimetres

#### **Package Information:**

Device	Package	Shipping	
BAV199T-7-F	SOT-523	3,000 / Tape & Reel	

#### **Part Number Table**

Description	Part Number	
Dual Surface Mount Low Leakage Diode	BAV199T-7-F	

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