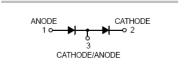
Dual Surface Mount Low Leakage Diode









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 _ј ,Тѕтс	-65 to +150	°C

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Dual Surface Mount Low Leakage Diode



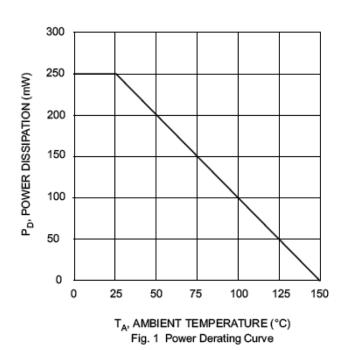
Electrical Characteristics:

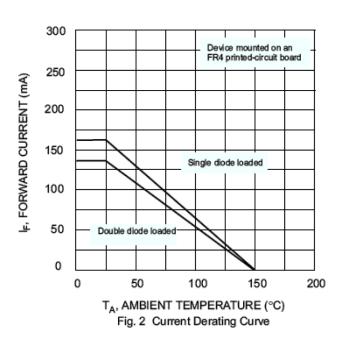
Ratings at 25°C unless otherwise specified

Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	V(BR)	I _R = 100μA	85	-	V
Reverse voltage leakage current	lr	V _R =75V V _R =75V T _j =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 _R =0V f=1MHz		2	pF
Reverse recovery time	trr	I _F =I _R =10mA I _{II} =0.1 × I _R R _L =100Ω	-	3	μS

Typical Characteristics:

T_A = 25°C unless otherwise specified





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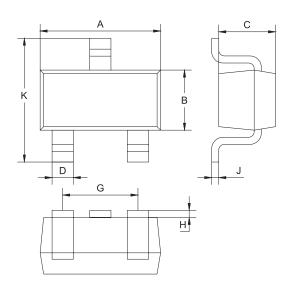


Dual Surface Mount Low Leakage Diode



Package Outline:

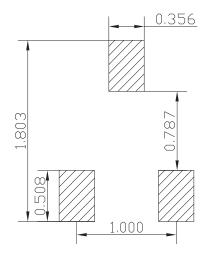
Plastic surface mounted package



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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