Low-Leakage Double Diode multicomp

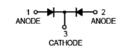


Features:

- Plastic SMD Package
- Low Leakage Current : typ. 3pA
- Switching Time : Typ. 0.8 ms
- Continuous Reverse Voltage : 75V Max.
- Repetitive Peak Reverse Voltage : 85V Max.
- Repetitive Peak Forward Current : 500mA Max.

Applications:

Low-leakage current applications in surface mounted circuits





SOT-23

Max. Rating @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Limits	Unit
Repetitive peak reverse voltage	Vrrm	85	V
DC Reverse Voltage	Vr	75	V
Forward continuous current Single diode loaded Double diode loaded	lF	215 125	mA
Repetitive peak forward current	IFRM	500	mA
Non-Repetitive peak forward current square wave; $T_j = 25C$ prior to surge; $tp=1\mu s$ tp=1ms tp=1s	IFSM	4 1 0.5	A
Total power dissipation	Ptot	250	mW
Operating junction temperature range	Тj	150	°C
Storage temperature range	Тѕтс	-65 to +125	°C

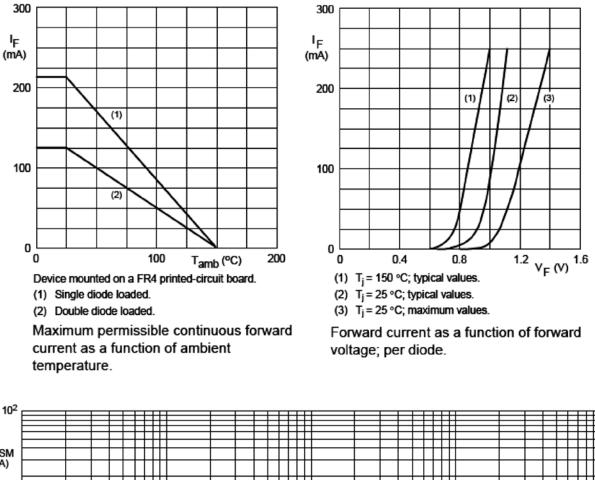
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Conditions	Min.	Max.	Unit
Forward voltage	VF	IF = 1mA IF = 10mA IF = 50mA IF = 100mA	-	900 1,000 1,100 1,250	mV
Reverse leakage current	lR	VR = 75V VR = 75V, TJ=150°C	-	5 80	nA
Junction capacitance	CJ	VR = 0V, f = 1MHz	-	2	pF
Reverse recovery time	trr	IF = IR = 10mA, Irr = 0.1 × IR	-	3	μs

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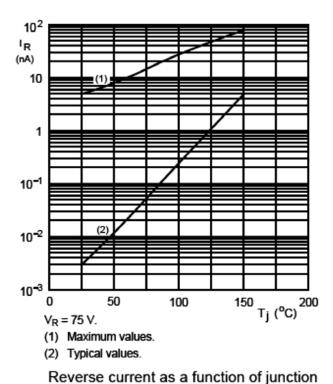
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Typical Characteristics @ T_A = 25°C unless otherwise specified

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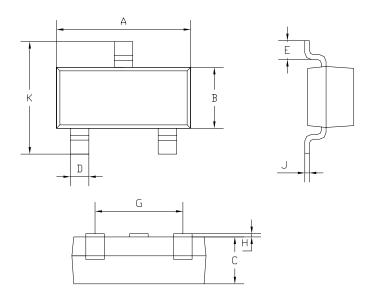


 C_{d} (pF) 1 0f = 1 MHz; T_i = 25 °C.

Diode capacitance as a function of reverse voltage; per diode; typical values.

temperature; per diode.

Plastic surface mounted package



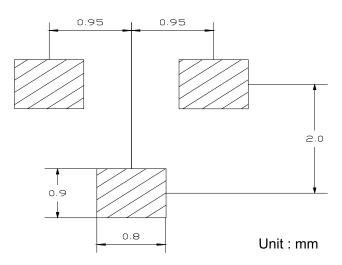
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SOT-23			
Dim	Min	Max	
А	2.85	2.95	
В	1.25	1.35	
С	1 Typical		
D	0.37	0.43	
E	0.35	0.48	
G	1.85	1.95	
Н	0.02	0.1	
J	0.1Typical		
К	2.35	2.45	
All Dimensions in mm			



25/02/13 V1.0

Soldering Footprint



Package Information

Device	Package	Shipping
BAV170-7-F	SOT-23	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Low-leakage double diode	BAV170-7-F

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