

**Micro Commercial Components** 



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# **Features**

- Surface Mount Package Ideally Suited for Automatic Insertion
- Very Low Leakage Current
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)

## **Mechanical Data**

- Case: SOT-23
- Weight: approx. 0.008 grams
- Marking Code: JX
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### **Maximum Ratings**

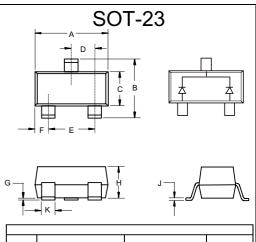
Symbol	Parameter	Rating	Unit
V <sub>RRM</sub> V <sub>RWM</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	85 V	
V <sub>R(RMS)</sub>	RMS Reverse Voltage	60 V	
I <sub>F</sub>	Forward Continuous Current Single diode loaded Note1	215	- mA
	Double diode loaded Note1	125	
I <sub>FRM</sub>	Repetitive Peak Forward Current	500	mA
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current @ t=1.0us @ t=1.0ms @ t=1.0s	4.0 1.0 0.5	A
PD	Power Dissipation	250	mW
R <sub>JA</sub>	Thermal Resistance Junction to Ambient Air	500	K/W
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C

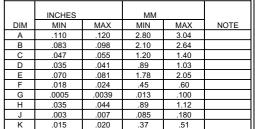
#### Note 1: Device mounted on a FR4 printed circuit board Electrical Characteristics @ 250C Inless Otherwise Specified

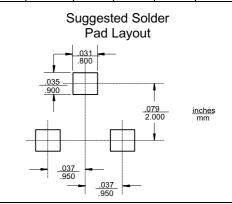
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Symbol	Parameter	Min	Тур	Max	Units		
$V_{(BR)R}$	Reverse Breakdown Voltage (I <sub>R</sub> =100uAdc)	85			V		
V <sub>F</sub>	Forward Voltage <sup>(1)</sup> $I_F=1.0mAdc$ $I_F=10mAdc$ $I_F=50mAdc$ $I_F=150mAdc$	 	  	0.9 1.0 1.1 1.25	V		
I <sub>R</sub>	Leakage Current (V <sub>R</sub> =75Vdc)			5.0	nA		
$C_j$	Junction Capacitance (V <sub>R</sub> =0, f=1.0MHz)		2.0		pF		
t <sub>rr</sub>	Reverse Recovery Time ( $I_F$ =10mA, $I_R$ =10mA, Irr=0.1 x $I_R$ $R_L$ =1000HMS)			3.0	us		

250mW Low Leakage Diode 85 Volts

**BAV170** 



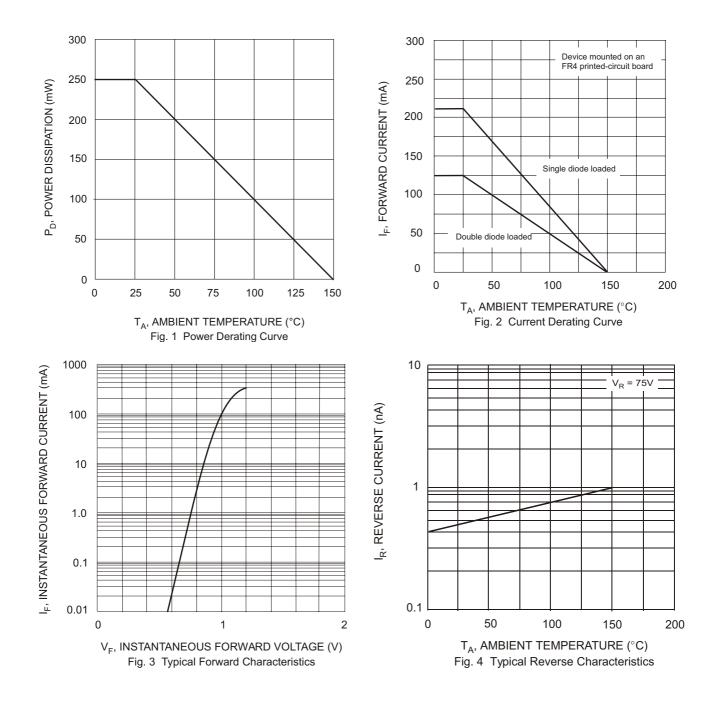




\*(1) Short duration pulse test to minimize self-heating effect.

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### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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