



# DAN202

## 100 mA Switching Diode 80 Volts

### Features

- High reliability
- High speed (Trr=1.5ns Typ.)
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

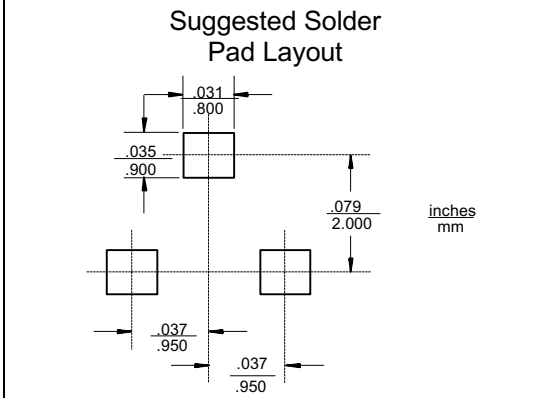
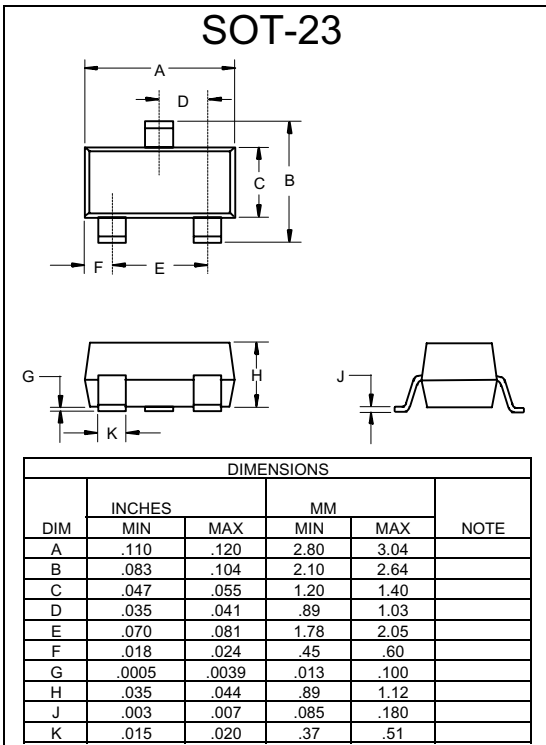
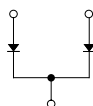
### Maximum Ratings

Symbol	Parameter	Rating	Unit
V <sub>RM</sub>	Peak Reverse Voltage	80	V
I <sub>o</sub>	Average Forward Current	100	mA
I <sub>FM</sub>	Peak Forward Current	300	mA
P <sub>D</sub>	Power dissipation	200	mW
T <sub>J</sub>	Junction Temperature	-55 to +150	°C
T <sub>STG</sub>	Storage Temperature	-55 to +150	°C

### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
<b>OFF CHARACTERISTICS</b>					
V <sub>F</sub>	Forward Voltage (I <sub>F</sub> =100mA)	---	---	1.2	Vdc
I <sub>R</sub>	Reverse Current (V <sub>R</sub> =70Vdc)	---	---	0.1	µA
C <sub>D</sub>	Diode Capacitance (V <sub>R</sub> =6V, f=1MHz)	---	---	3.5	pF
t <sub>rr</sub>	Reverse Recovery Time (V <sub>R</sub> =6V, I <sub>F</sub> =5mA)	---	---	4	ns

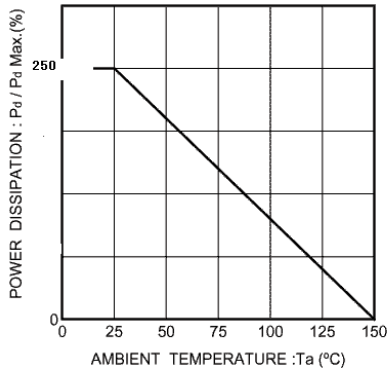
### Marking: N



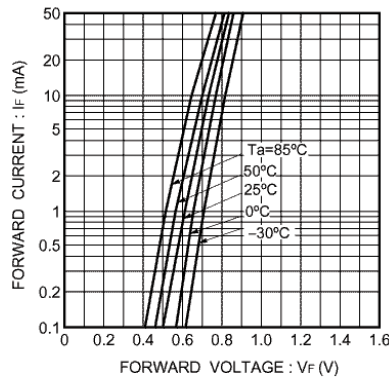
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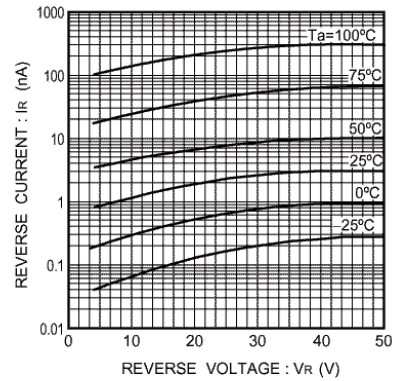
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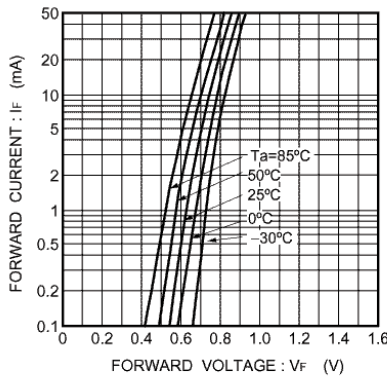
Power attenuation curve



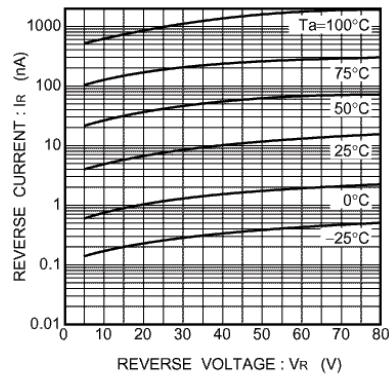
Forward characteristics (P Type)



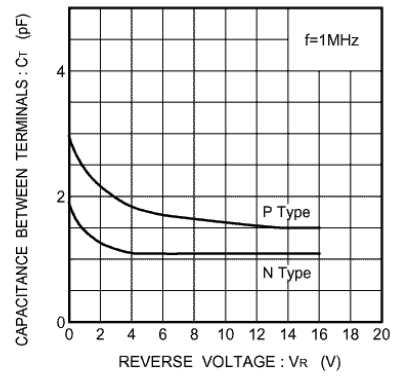
Reverse characteristics (P Type)



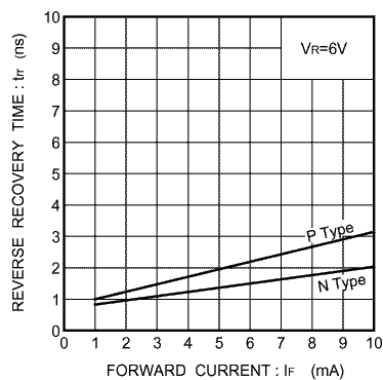
Forward characteristics (N Type)



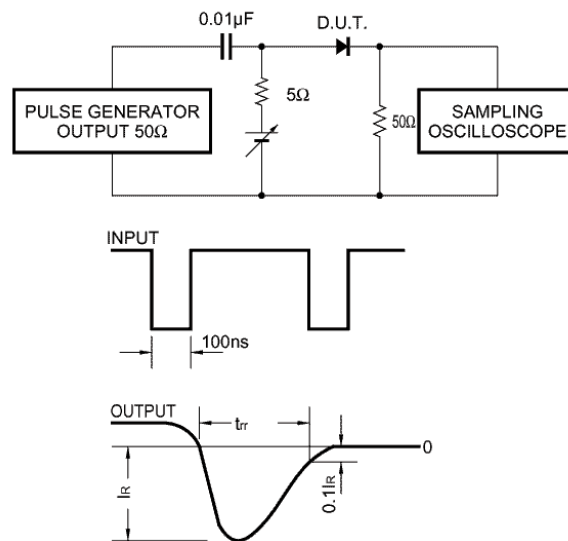
Reverse characteristics (N Type)



Capacitance between terminals characteristics



Reverse recovery time



Reverse recovery time ( $t_{rr}$ ) measurement circuit



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### Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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