Micro Commercial Components
20736 Marilla Street Chatsworth
CA 91311
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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"

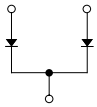
Maximum Ratings

Symbol	Parameter	Rating	Unit
V_{RM}	Peak Reverse Voltage	80	V
Io	Average Forward Current	100	mA
I_{FM}	Peak Forward Current	300	mA
P_D	Power dissipation	200	mW
T_J	Junction Temperature	-55 to +150	℃
T_{STG}	Storage Temperature	-55 to +150	℃

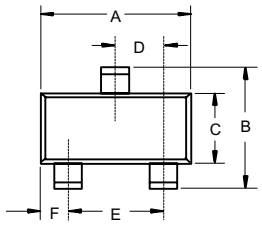
Electrical Characteristics @ 25°C Unless Otherwise Specified

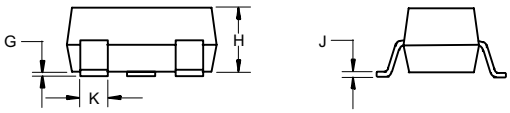
Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
V_F	Forward Voltage (I_F=100mAdc)	---	---	1.2	Vdc
I_R	Reverse Current (V_R=70Vdc)	---	---	0.1	uAdc
C_D	Diode Capacitance (V_R=6V, f=1MHz)	---	---	3.5	pF
t_{rr}	Reverse Recovery Time (V_R=6V, I_F=5mA)	---	---	4	ns

Marking: N



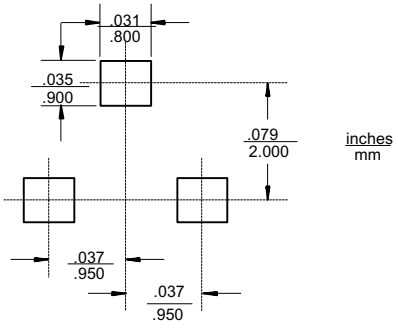
SOT-23





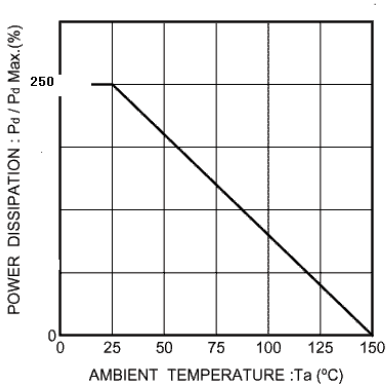
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout

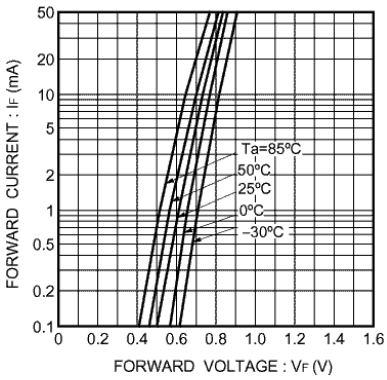


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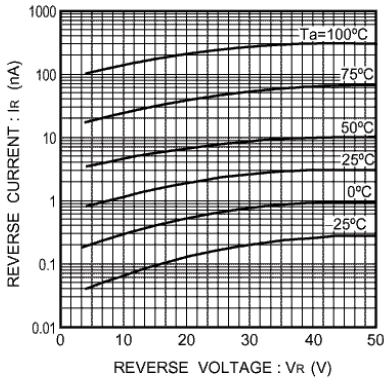
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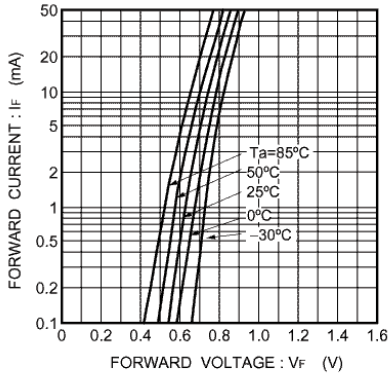
Power attenuation curve



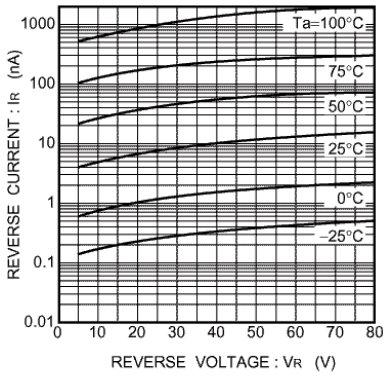
Forward characteristics
(P Type)



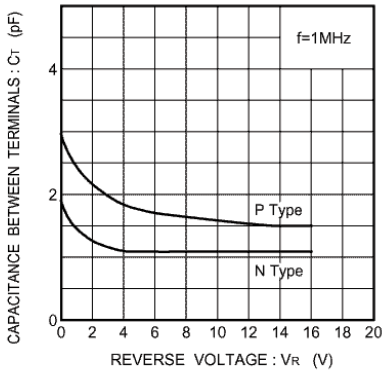
Reverse characteristics
(P Type)



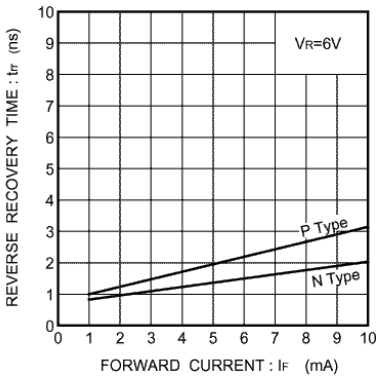
Forward characteristics
(N Type)



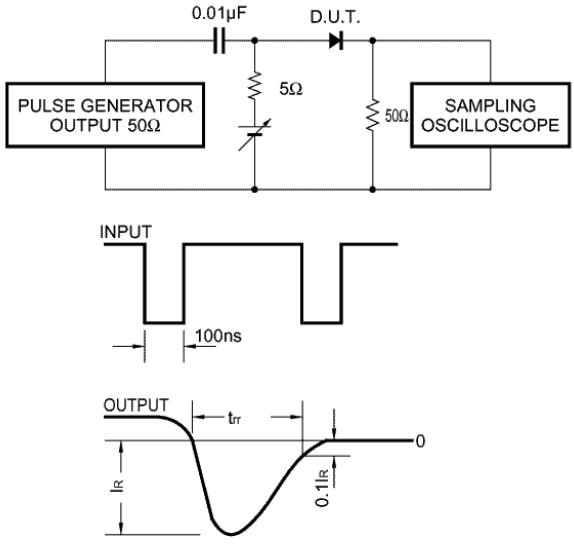
Reverse characteristics
(N Type)



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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