



Micro Commercial Components



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20736 Marilla Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

DAN202

Features

- High reliability
- High speed ($T_{rr}=1.5\text{ns}$ 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"

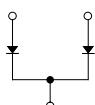
Maximum Ratings

Symbol	Parameter	Rating	Unit
V_{RM}	Peak Reverse Voltage	80	V
I_o	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	°C
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

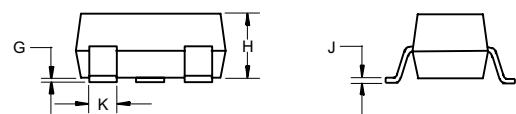
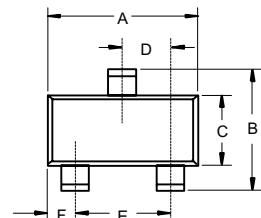
Marking: N



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**100 mA
Switching Diode
80 Volts**

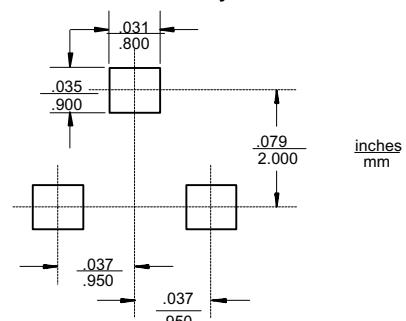
SOT-23



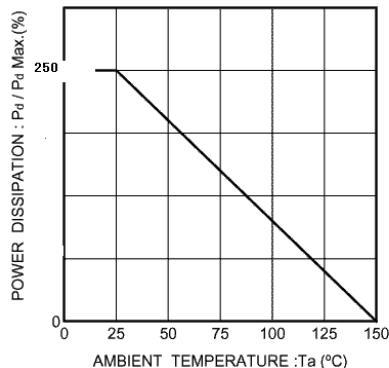
DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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	

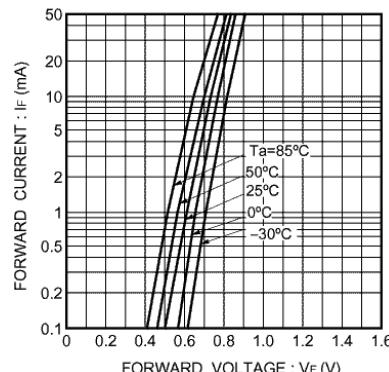
Suggested Solder Pad Layout



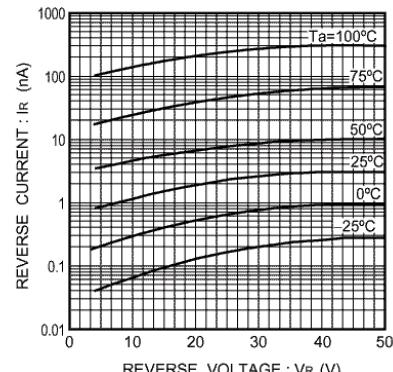
www.mccsemi.com



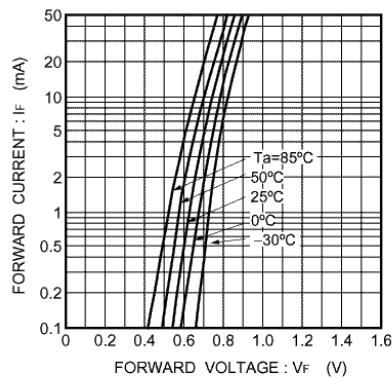
Power attenuation curve



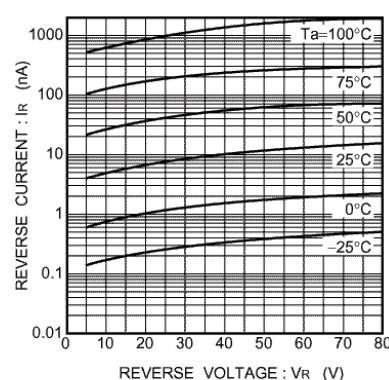
Forward characteristics
(P Type)



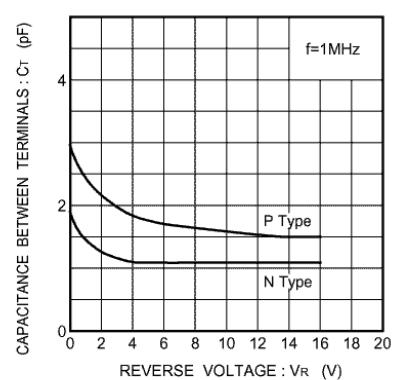
Reverse characteristics
(P Type)



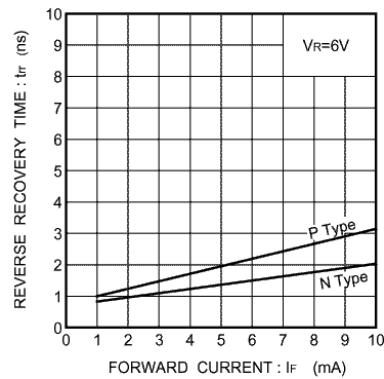
Forward characteristics
(N Type)



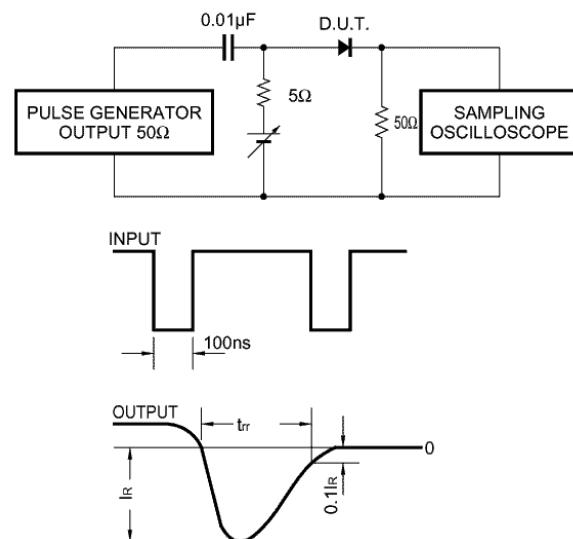
Reverse characteristics
(N Type)



Capacitance between
terminals characteristics



Reverse recovery time



Reverse recovery time (t_r) measurement circuit



TM

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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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