



DAP202

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

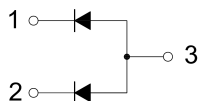
Maximum Ratings

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
I _{FSM}	Surge Current	4	A
R _{thJA}	Thermal Resistance From Junction to Ambient	625	°C/W
T _J	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature	-55 to +150	°C

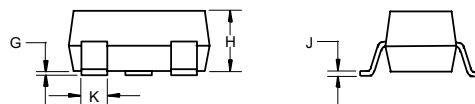
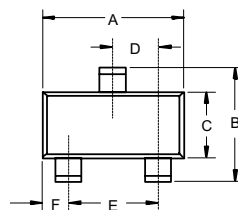
Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Typ	Max	Units
OFF CHARACTERISTICS					
V _F	Forward Voltage (I _F =100mA _{dc})	---	---	1.2	Vdc
I _R	Reverse Current (V _R =70Vdc)	---	---	0.1	uA _{dc}
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: P

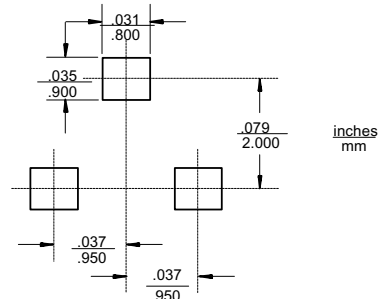


SOT-23



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.098	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	

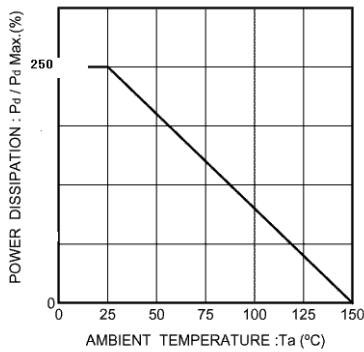
Suggested Solder Pad Layout



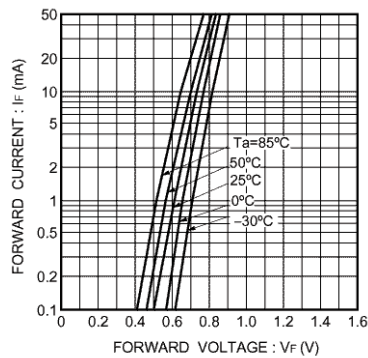
DAP202



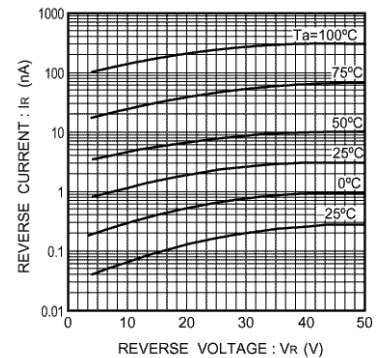
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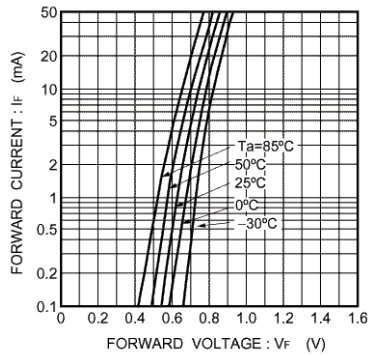
Power attenuation curve



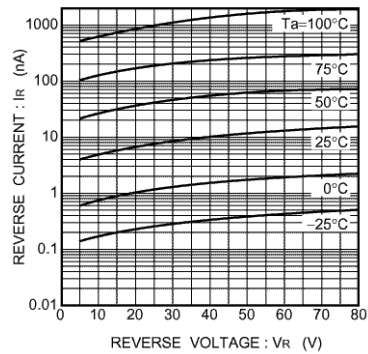
Forward characteristics (P Type)



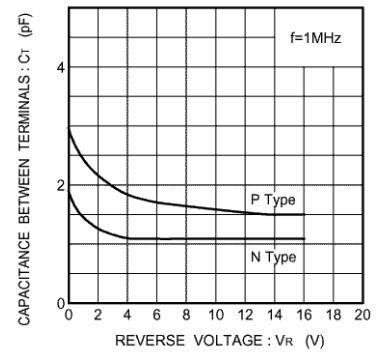
Reverse characteristics (P Type)



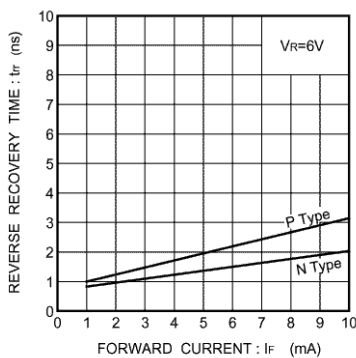
Forward characteristics (N Type)



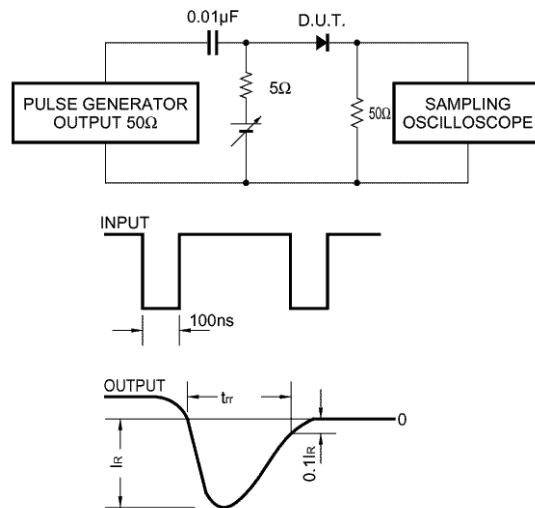
Reverse characteristics (N Type)



Capacitance between terminals characteristics



Reverse recovery time



Reverse recovery time (tr) measurement circuit



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Ordering Information :

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

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