



DAN202 SWITCHING DIODE

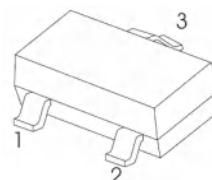
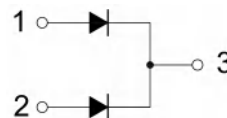
FEATURES

- High Speed
- High Reliability
- Suitable for High Packing Density Layout

APPLICATIONS

- High Speed Switching

MARKING: N



SOT-23

MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

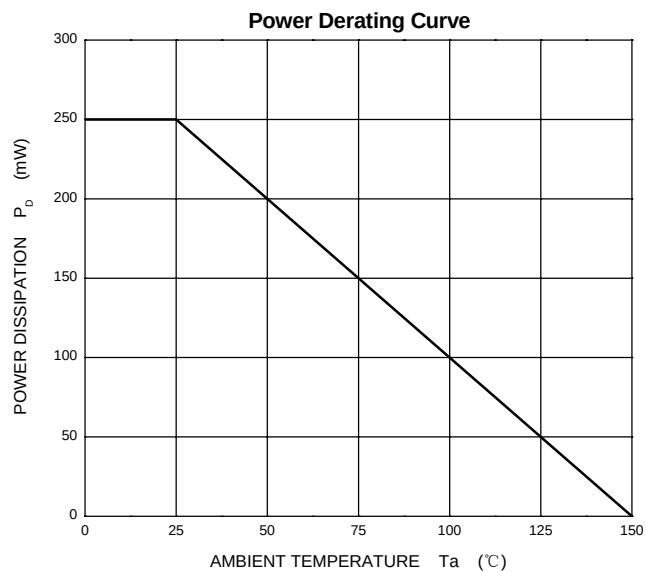
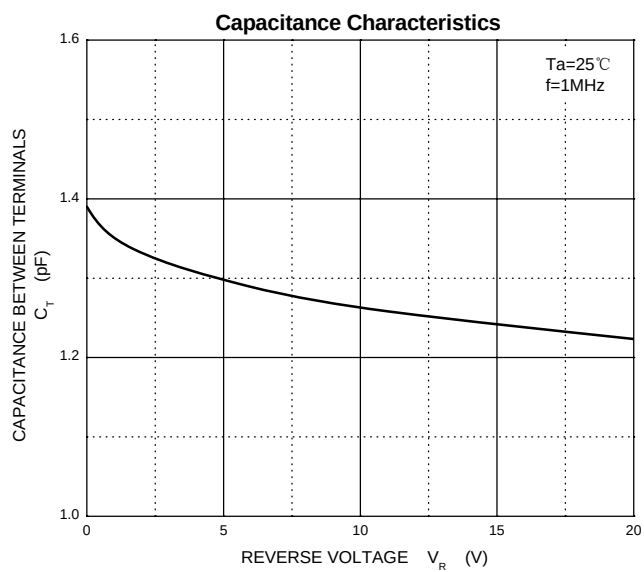
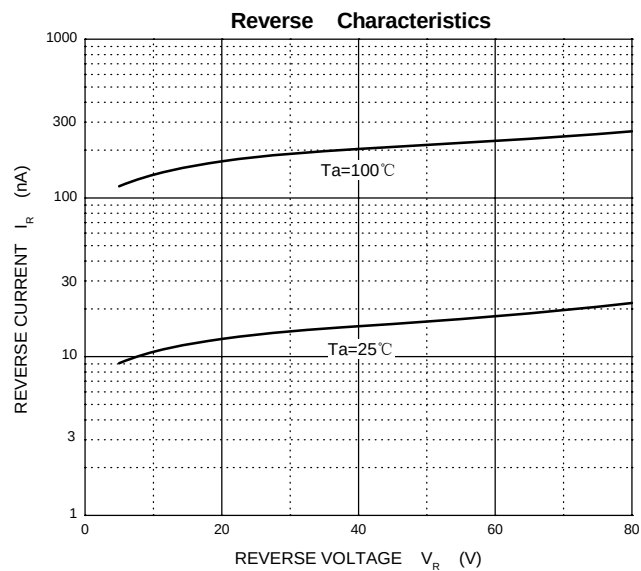
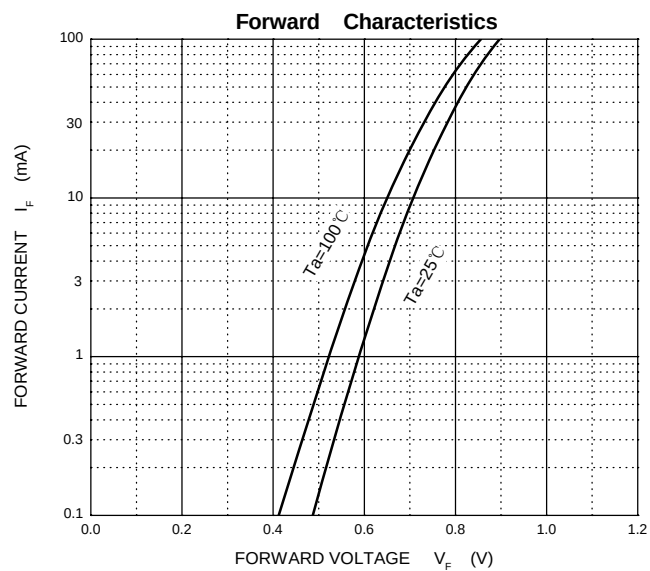
Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	80	V
I_O	Continuous Forward Current	100	mA
I_{FM}	Peak Forward Current	300	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$	2	A
P_D	Power Dissipation	250	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	500	$^{\circ}\text{C/W}$
T_j	Junction Temperature	150	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	80			V
Reverse current	I_R	$V_R=70\text{V}$			0.1	μA
Forward voltage	V_F	$I_F=100\text{mA}$			1.2	V
Total capacitance	C_{tot}	$V_R=6\text{V}, f=1\text{MHz}$			3.5	pF
Reverse recovery time	t_{rr}	$I_F=I_R=5\text{mA}, V_R=6\text{V}$			4	ns



Typical Characteristics

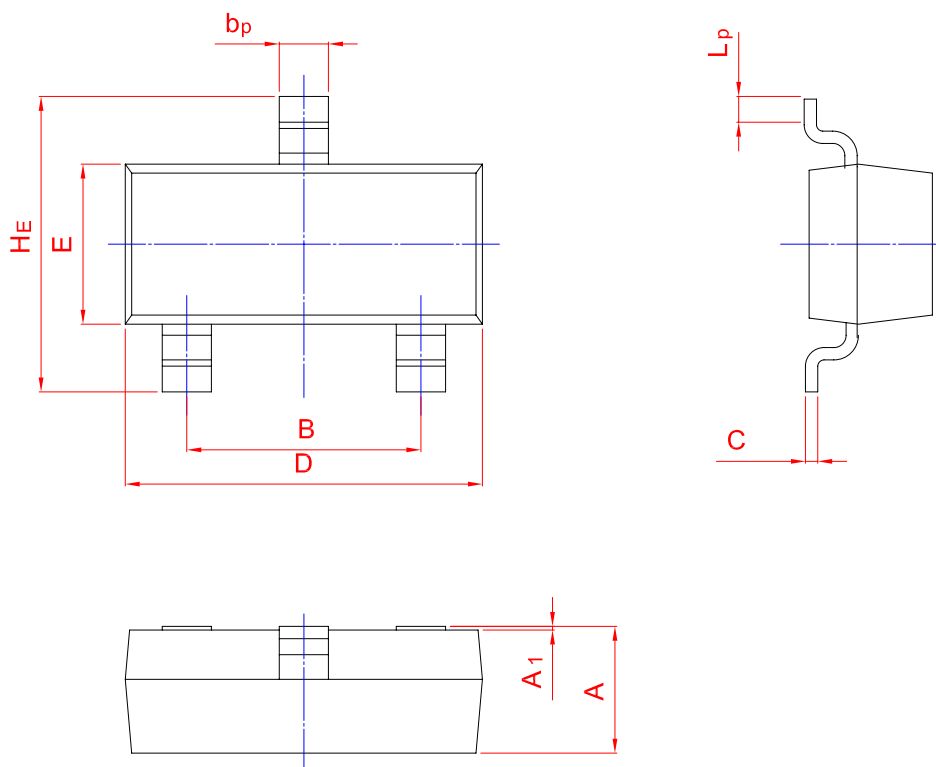
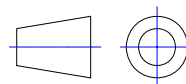




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20