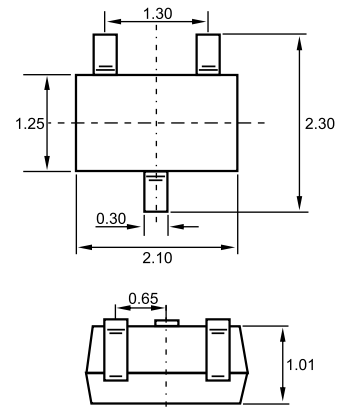


### SOT-323



Dimensions in inches and (millimeters)

### Features

- ✧ For types of packaging are available.
- ✧ High speed switching.
- ✧ Suitable for high packing density layout.
- ✧ High reliability.

### Applications

- ✧ For general purpose switching applications.

### Ordering Information

Type No.	Marking	Package Code
DAN202U	N	SOT-323

MAXIMUM RATING @  $T_a=25^\circ\text{C}$  unless otherwise specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	$V_{RM}$	80	V
Diode reverse voltage	$V_R$	80	V
Forward continuous Current (peak)	$I_F$	300	mA
Average forward current	$I_O$	100	mA
Power Dissipation	$P_d$	200	mW
Junction temperature	$T_j$	150	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-65-+150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu A$	80		V
Reverse voltage leakage current	$I_R$	$V_R=70V$		0.1	$\mu A$
Forward voltage	$V_F$	$I_F=100mA$		1.2	V
Diode capacitance	$C_D$	$V_R=6V$ $f=1MHz$		3.5	pF
Reverse recovery time	$t_{rr}$	$V_R=6V, I_F=5mA$		4	nS

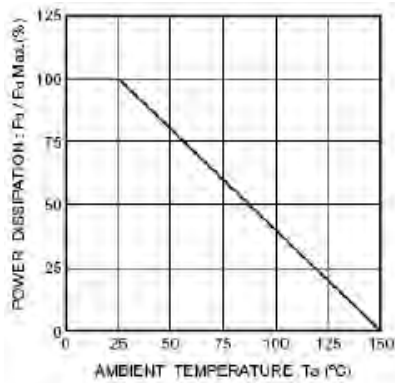
**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**


Fig.1 Power attenuation curve

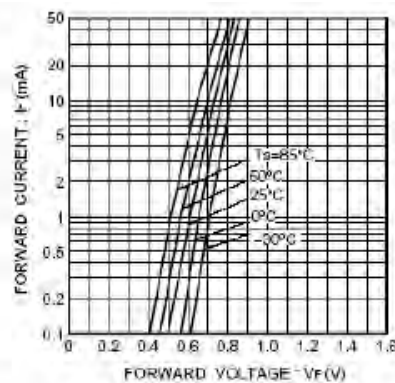


Fig.2 Forward characteristics (P Type)

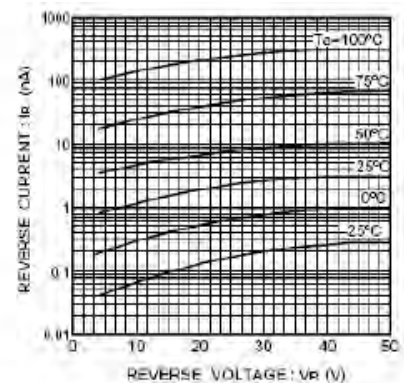


Fig.3 Reverse characteristics (P Type)

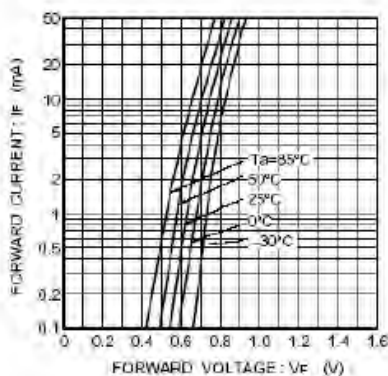


Fig.4 Forward characteristics (N Type)

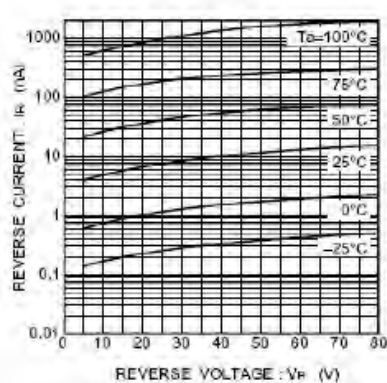


Fig.5 Reverse characteristics (N Type)

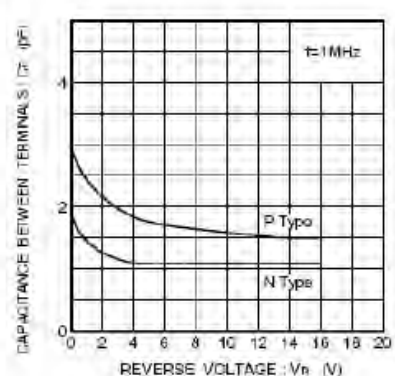


Fig.6 Capacitance between terminals characteristics