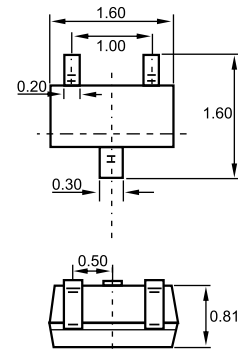


SOT-523



Features

- ✧ Ultra-Small surface mount package.
- ✧ Fast switching speed.
- ✧ For general purpose switching applications.
- ✧ Low conductance.



Applications

- ✧ General purpose switching application.

Ordering Information

Type No.	Marking	Package Code
DAN222	N	SOT-523

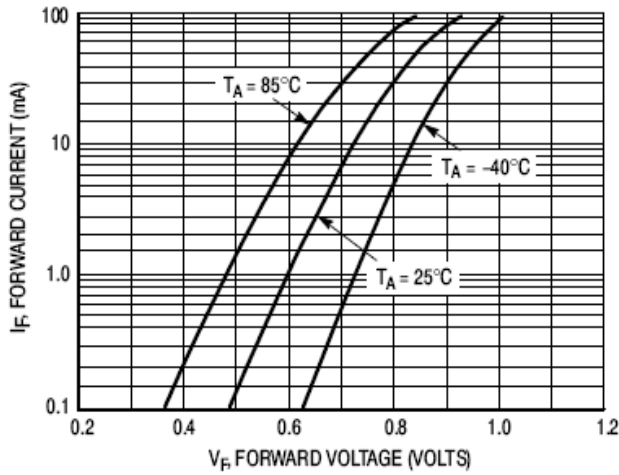
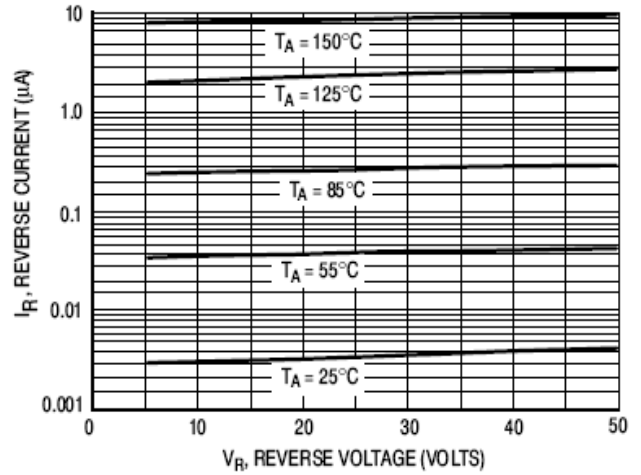
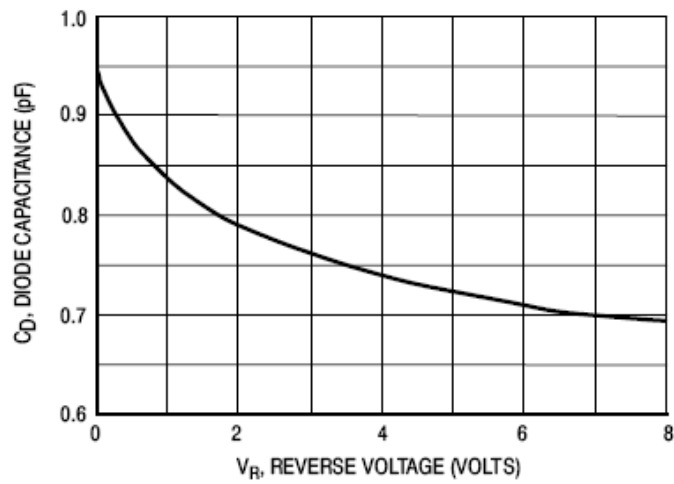
Dimensions in inches and (millimeters)

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Parameter	Value	Units
V_R	DC reverse voltage	80	V
V_{RM}	Peak reverse voltage	80	V
I_F	Forward continuous voltage	100	mA
I_{FM}	Peak forward current (max.)	300	mA
I_{FSM}	Non-repetitive peak forward surge current @t=1.0μs	2.0	A
P_d	Power dissipation	150	mW
$R_{\theta JA}$	Thermal resistance junction to ambient	833	°C/W
T_j, T_{stg}	Junction and Storage Temperature	-55~150	°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
Leakage current	I_R	$V_R=70V$		0.1	μA
Forward voltage	V_F	$I_F=100mA$		1.2	V
Diode capacitance	C_D	$V_R=6.0V, f=1MHz$		3.5	pF
Reverse recovery Time	t_{rr}	$I_F=I_R=5.0mA, I_{rr}=0.1*I_R, R_L=100\Omega$ $V_R=6.0V$		4.0	ns

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Figure 1. Forward Voltage

Figure 2. Reverse Current

Figure 3. Diode Capacitance