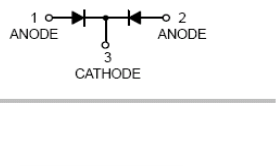
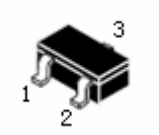
Surface Mount Fast Switching Diode **DAN222**

FEATURES

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

Lead-free





SOT-523

APPLICATIONS

- General purpose switching application.

ORDERING INFORMATION

Type No.	Marking	Package Code
DAN222	N	SOT-523

MAXIMUM RATING @ Ta=25℃ 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	℃/W
T_j, T_{stg}	Junction and Storage Temperature	-55~150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Test conditions**	**MIN**	**MAX**	**UNIT**
Reverse breakdown voltage	$V_{(BR)R}$	I_R=100μA	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=100Ω V_R=6.0V		4.0	ns

Surface Mount Fast Switching Diode **DAN222**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

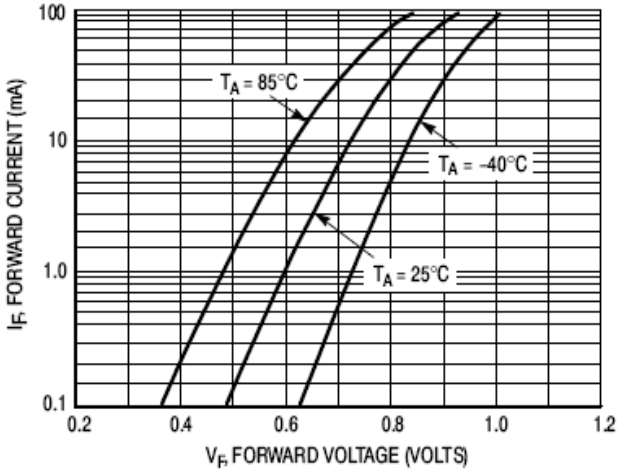


Figure 1. Forward Voltage

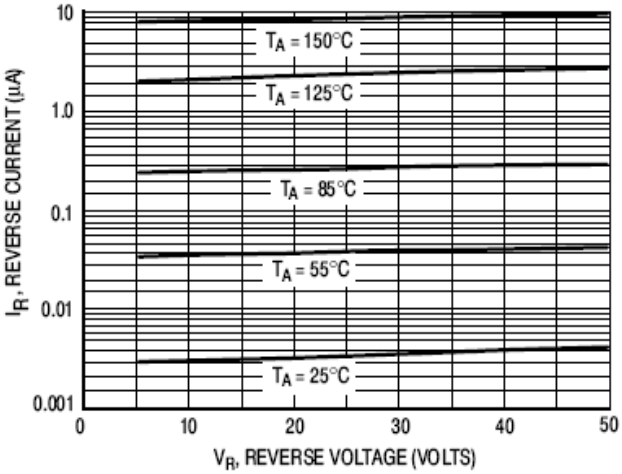


Figure 2. Reverse Current

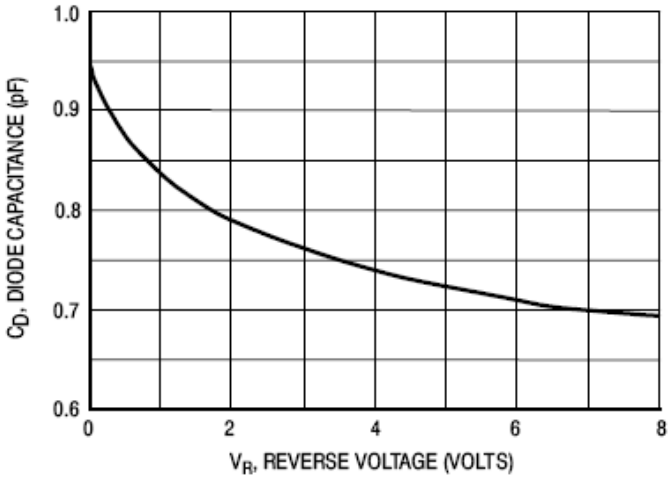
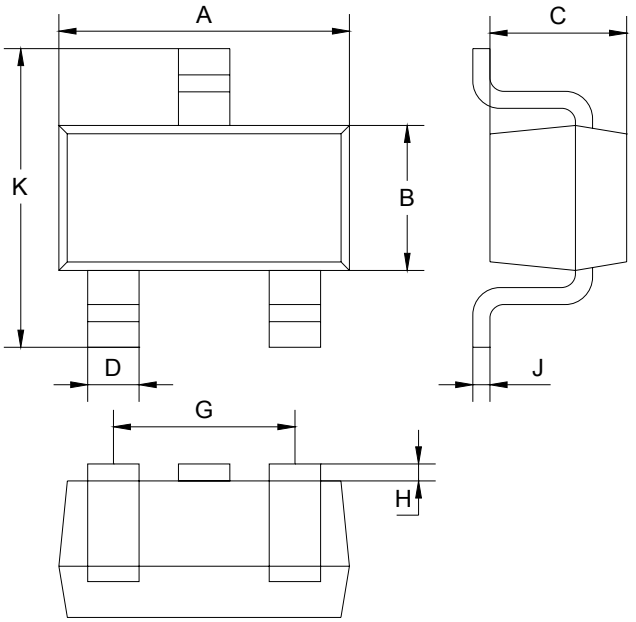


Figure 3. Diode Capacitance

Surface Mount Fast Switching Diode **DAN222**

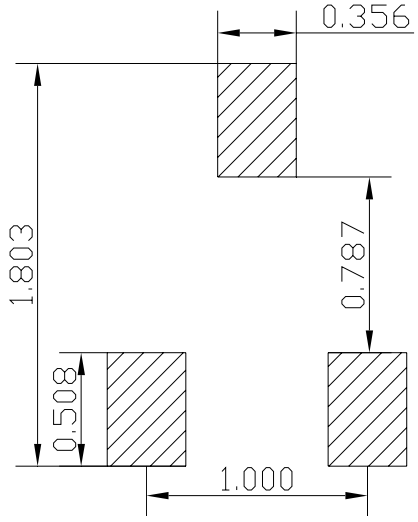
PACKAGE OUTLINE

Plastic surface mounted package SOT-523



SOT-523		
Dim	Min	Max
A	1.5	1.7
B	0.75	0.85
C	0.6	0.8
D	0.15	0.3
G	0.9	1.1
H	0.02	0.1
J	0.1Typical	
K	1.45	1.75
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
DAN222	SOT-523	3000/Tape&Reel