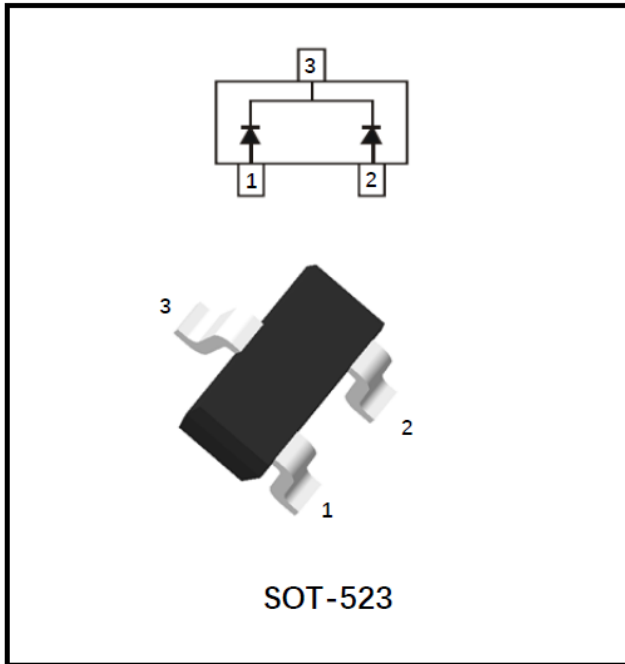


## Switching Diode



### Features

- Fast switching speed
- High Conductance
- Surface mount package ideally Suited for Automatic Insertion

### Mechanical Data

- **Package:** SOT-523
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:** N

### ■Maximum Ratings (Ta=25°C Unless otherwise specified)

Item	Symbol	Unit	Value
Reverse Voltage	$V_R$	V	80
Forward Continuous Current	$I_F$	mA	100
Non-Repetitive Peak Forward Surge Current @ t=1us	$I_{FSM}$	A	2
Power Dissipation	$P_D$	mW	150
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	°C/W	833
Operation Junction Temperature	$T_J$	°C	150
Storage Temperature	TSTG	°C	-55 to +150



# DAN222

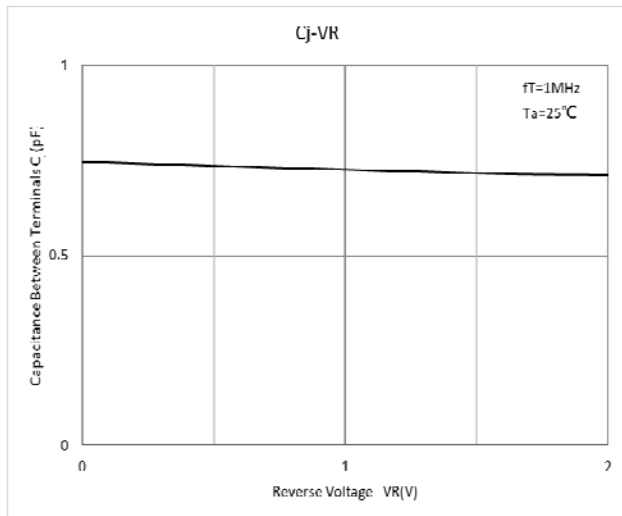
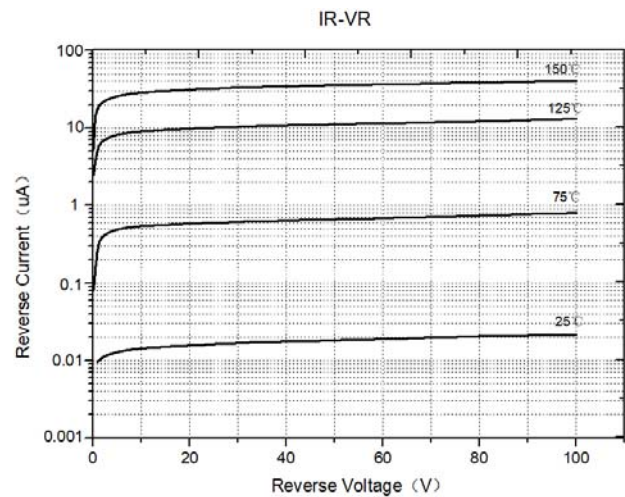
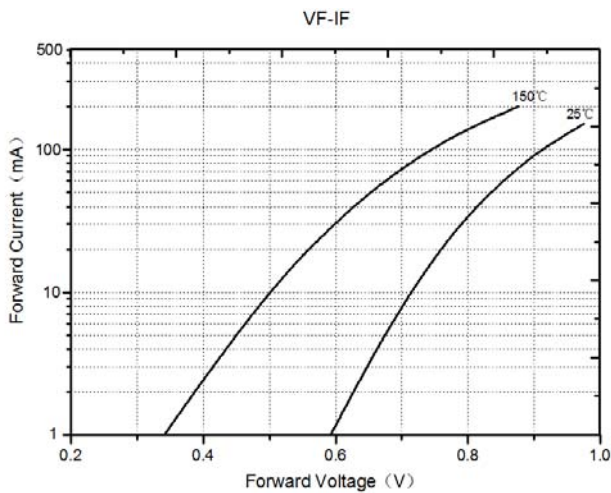
## ■ Electrical Characteristics (Ta=25°C unless otherwise specified)

Item	Symbol	Unit	Conditions	MIN	TYP	MAX
Reverse Voltage	$V_R$	V	$I_R=100\mu A$	80	-	-
Maximum Instantaneous Forward Voltage	$V_F$	V	$I_F=100mA$	-	-	1.2
Maximum DC Reverse Current	$I_R$	nA	$V_R=70V$	-	-	100
Typical Junction Capacitance	$C_J$	pF	$f=1.0MHz, V_R=6V$	-	-	3.5
Reverse Recovery Time	$T_{rr}$	ns	$I_F=I_R=10mA$ $I_{rr}=0.1*I_R, R_L=100\Omega$	-	-	4

## ■ Ordering Information (Example)

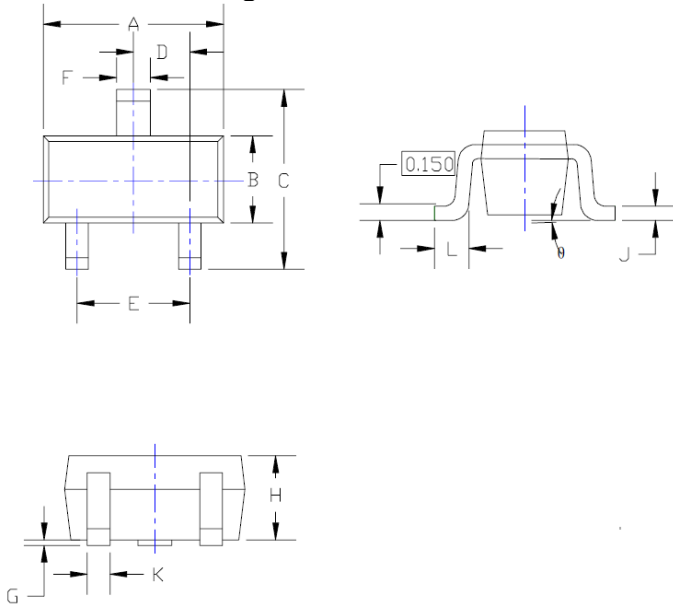
Preferred P/N	Packing Code	Unit Weight(G)	Minimum Package(Pcs)	Inner Box Quantity(Pcs)	Outer Carton Quantity(Pcs)	Delivery Mode
DAN222	F2	Approximate 0.0027	3000	30000	120000	7" reel

## ■ Characteristics (Typical)



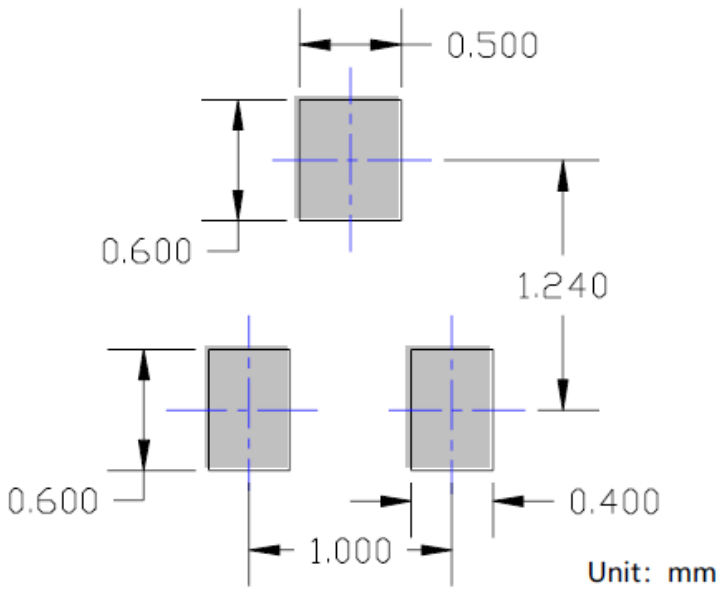


■ SOT-523 Package Outline Dimensions



SYMBOL	DIMENSIONS			
	INCHES		Millimeter	
	MIN.	MAX.	MIN.	MAX.
A	0.059	0.067	1.500	1.700
B	0.030	0.033	0.750	0.850
C	0.057	0.069	1.450	1.750
D	0.020TYP		0.500TYP	
E	0.035	0.043	0.900	1.100
F	0.010	0.018	0.250	0.450
G	0.000	0.004	0.000	0.100
H	0.024	0.031	0.600	0.800
J	0.004	0.008	0.100	0.200
K	0.006	0.014	0.150	0.350
L	0.010	0.018	0.260	0.460
$\theta$	0°	8°	0°	8°

■ SOT-523 Suggested Pad Layout





## DAN222

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