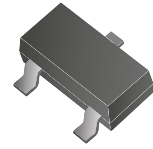


## CDSH3-222N-G/222P-G

**Reverse Voltage: 80 Volts**  
**Power Dissipation: 150 mW**  
**RoHS Device**



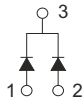
### Features

- Design for mounting on small surface.
- High speed switching.
- High mounting capability, strong surge withstand, high reliability.

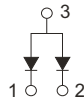
### Mechanical data

- Case: SOT-523, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Approx. weight: 0.002 grams

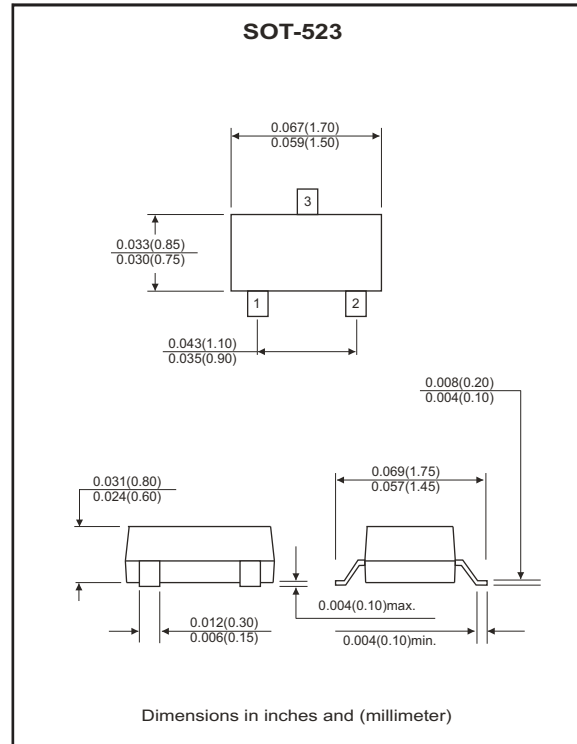
### Circuit diagram



CDSH3-222N-G



CDSH3-222P-G



### Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	$V_{RRM}$		80	V
Reverse voltage	$V_R$		80	V
Peak forward current	$I_F$		300	mA
Peak surge forward current	$I_{FSM}$	T=1.0 sec	4	A
Power dissipation	$P_D$		150	mW
Maximum forward voltage	$V_F$	@ $I_F=100mA$	1.2	V
Maximum reverse current	$I_R$	@ $V_R=70V$	0.1	$\mu A$
Maximum reverse recovery time	$T_{rr}$	$I_F=I_R=5mA, R_L=100\Omega$	4	nS
Maximum diode capacitance	$C_J$	$V_R=6V, f=1.0MHz$	3.5	pF
Maximum junction temperature	$T_J$		150	°C
Storage temperature	$T_{STG}$		-55 to +150	°C

## RATING AND CHARACTERISTIC CURVES (CDSH3-222N-G/222P-G)

Fig.1 - Forward Characteristics (P type)

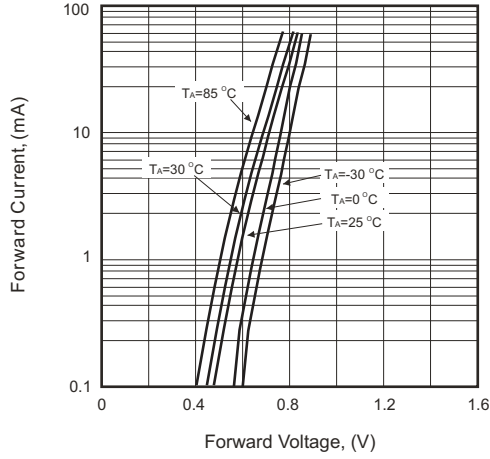


Fig.2 - Reverse Characteristics (P type)

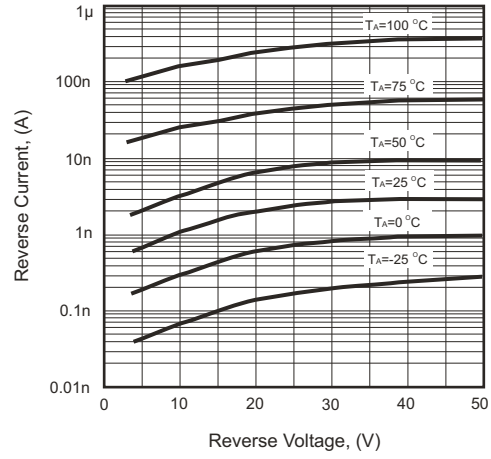


Fig.3 - Forward Characteristics (N type)

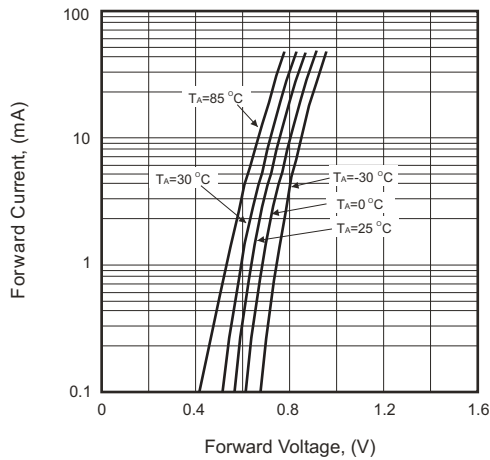


Fig.4 - Reverse Characteristics (N type)

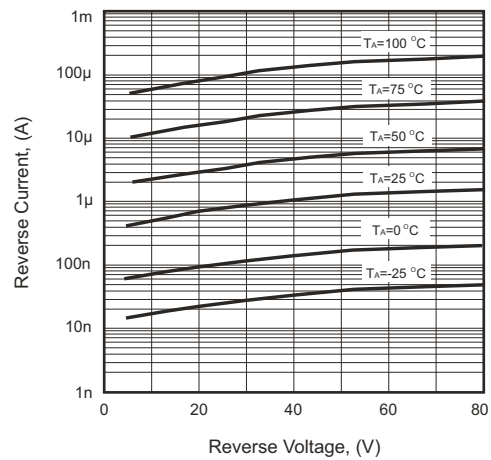


Fig.5 - Capacitance Between Terminals Characteristics

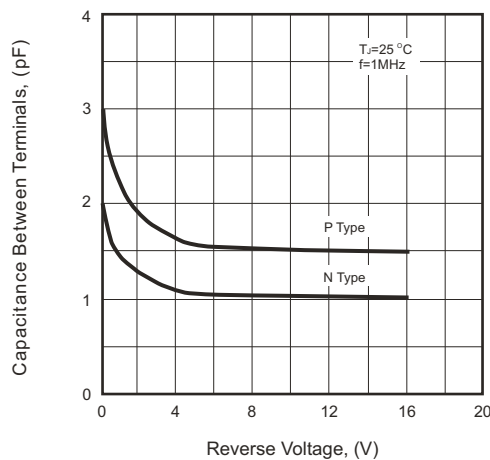


Fig.6 - Power Derating Curve

