Small Signal Switching Diodes
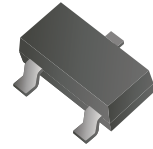
Comchip
SMD Diode Specialist

CDSH3-222N-G/222P-G

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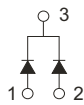**Power Dissipation: 150 mW**
RoHS Device

Features

-Design for mounting on small surface.

-High speed switching.

-High mounting capability, strong surge
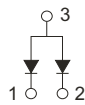 withstand, high reliability.

Mechanical data

-Case: SOT-523, molded plastic.

-Terminals: solderable per MIL-STD-750,
 method 2026.
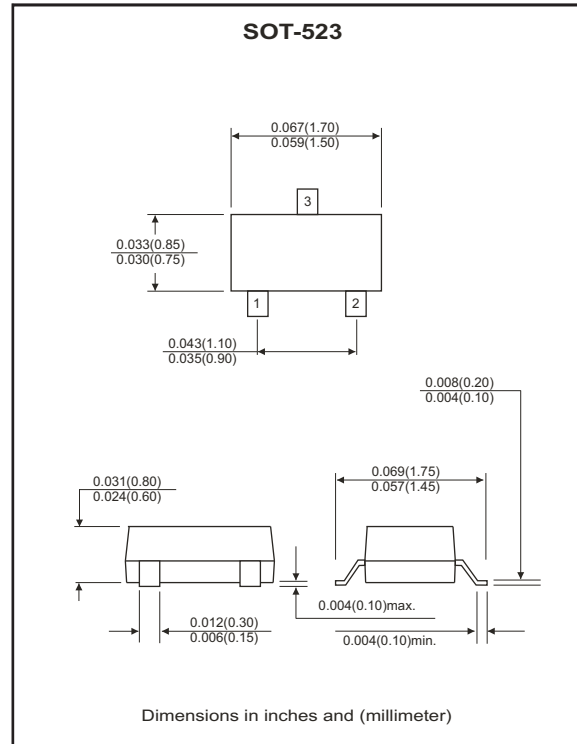
-Approx. weight: 0.002 grams

Circuit diagram

CDSH3-222N-G   CDSH3-222P-G

SOT-523

Dimensions in inches and (millimeter)

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	µA
Maximum reverse recovery time	T_{rr}	I_F=I_R=5mA, R_L=100Ω	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

Small Signal Switching Diodes

RATING AND CHARACTERISTIC CURVES (CDSH3-222N-G/222P-G)
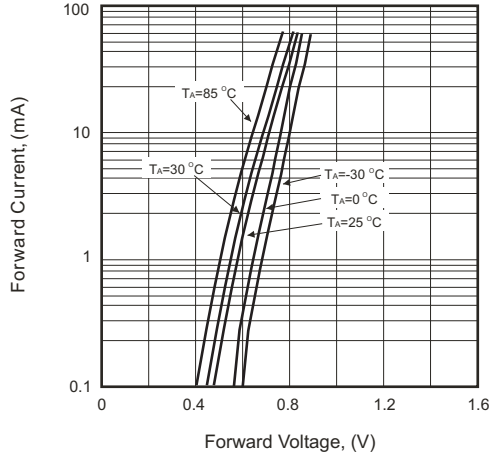
Fig.1 - Forward Characteristics
(P type)

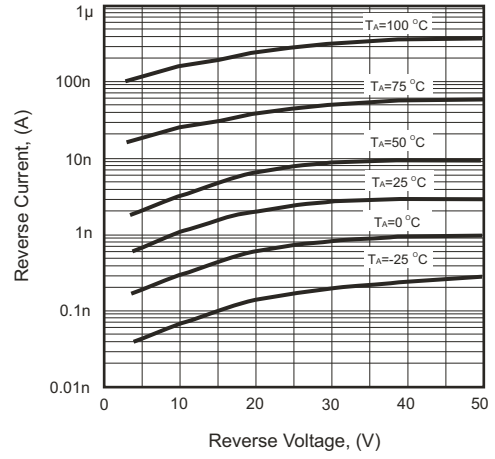Fig.2 - Reverse Characteristics
(P type)
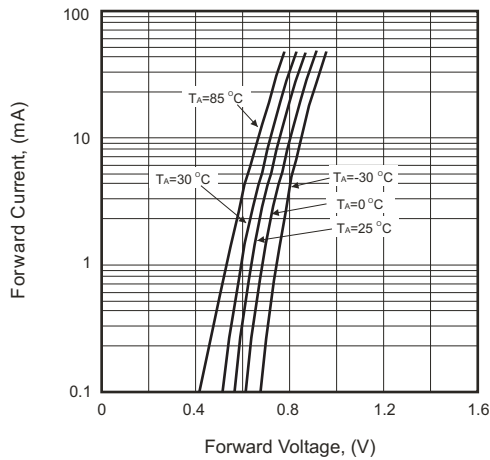
Fig.3 - Forward Characteristics
(N type)

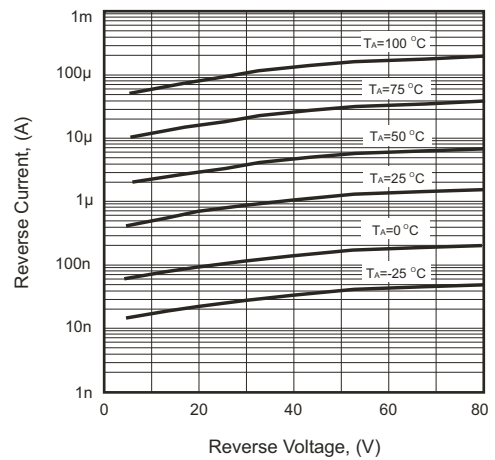Fig.4 - Reverse Characteristics
(N type)

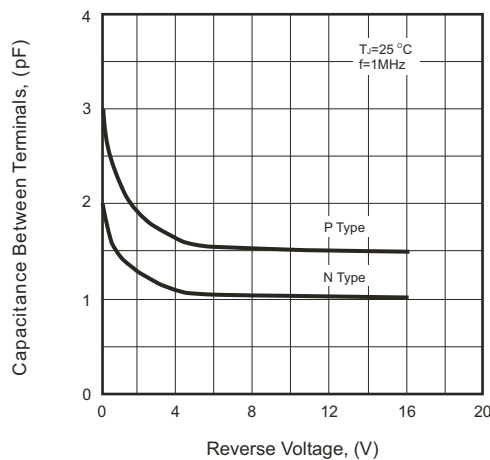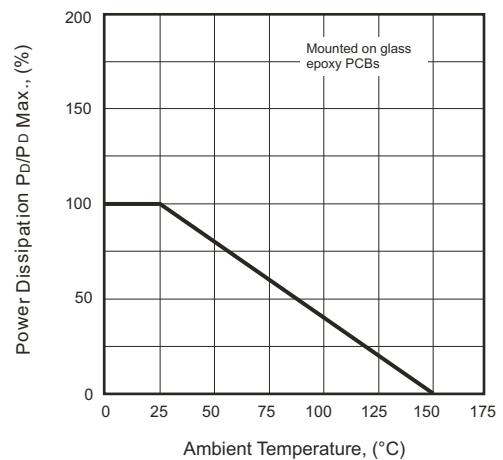Fig.5 - Capacitance Between Terminals
Characteristics

Fig.6 - Power Derating Curve

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