

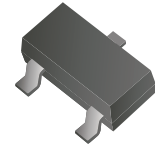


**THE DATASHEET OF
CDSH3-222N-G**



CDSH3-222N-G/222P-G

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



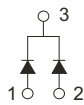
Features

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

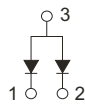
Mechanical data

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

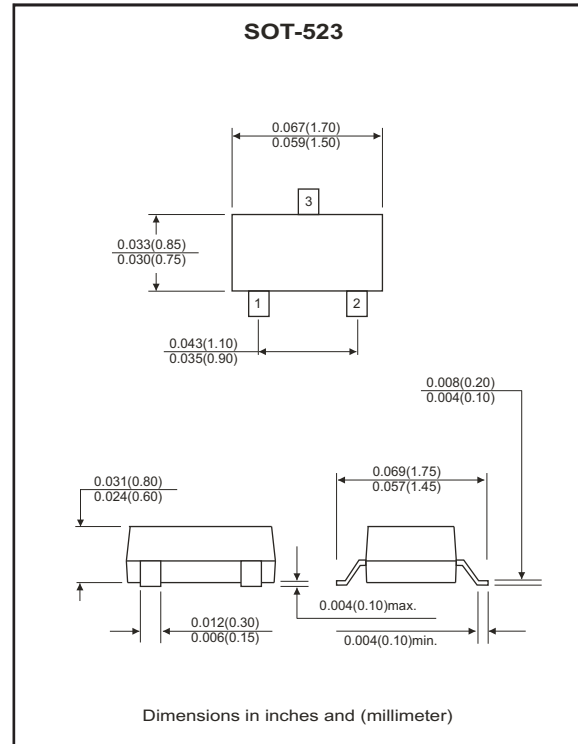
Circuit diagram



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	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

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

Fig.1 - Forward Characteristics (P type)

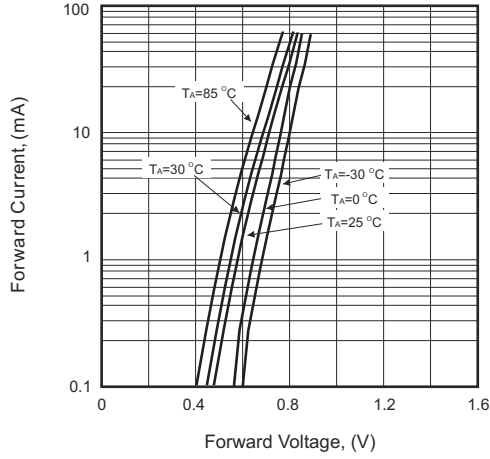


Fig.2 - Reverse Characteristics (P type)

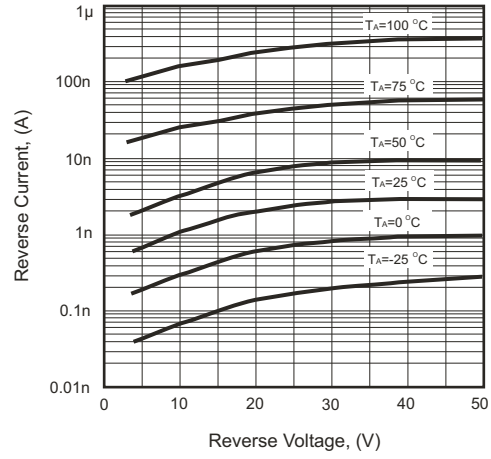


Fig.3 - Forward Characteristics (N type)

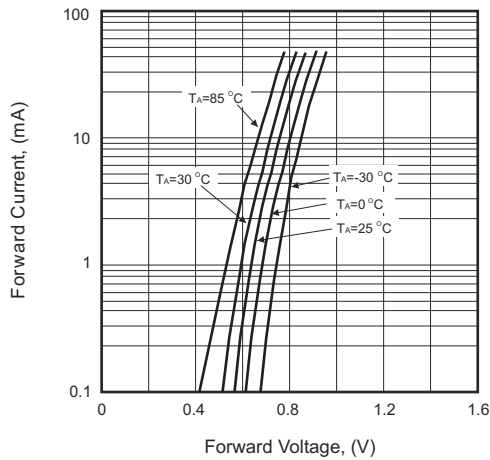


Fig.4 - Reverse Characteristics (N type)

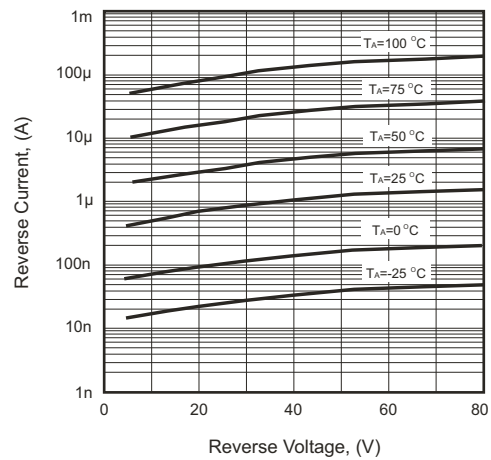


Fig.5 - Capacitance Between Terminals Characteristics

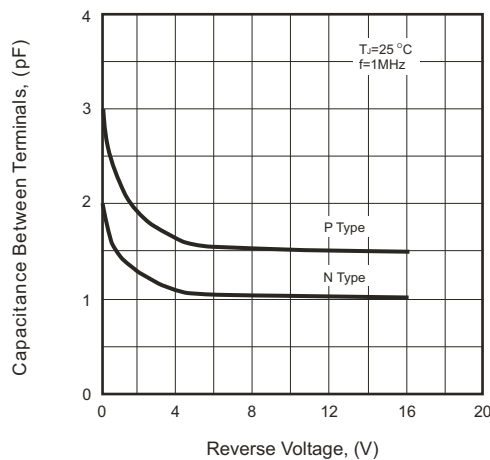
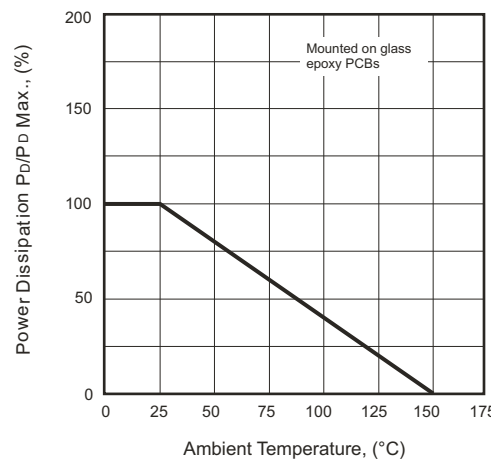


Fig.6 - Power Derating Curve



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