

# Small Signal Switching Diodes

**COMCHIP**  
SMD DIODE SPECIALIST

## CDSH3-99-G/ 70-G/ 56-G/ 16-G

Reverse Voltage: 85 Volts

Forward Continue Current: 155mA

RoHS Device



### Features

Designed for mounting on small surface.

High speed switching.

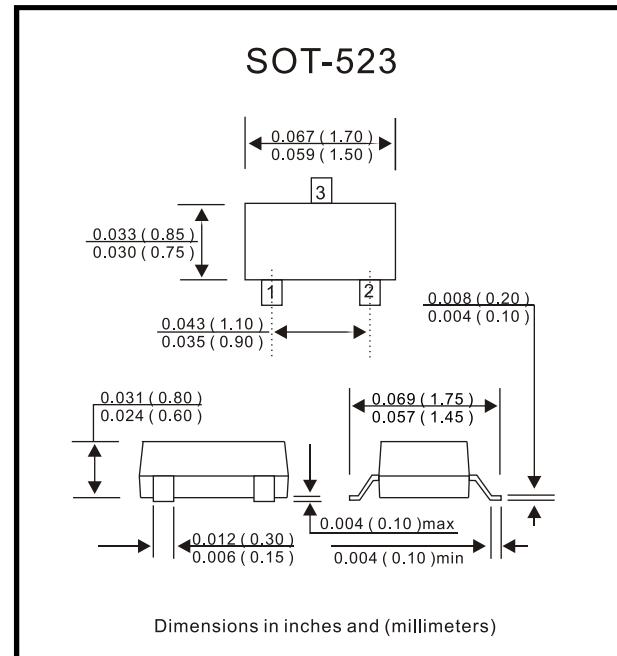
High mounting capability, strong surge withstand, high reliability.

### Mechanical data

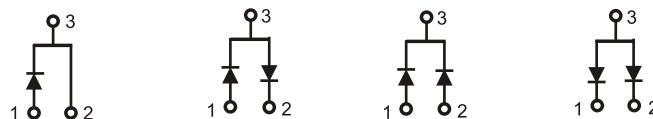
Case:SOT-523, molded plastic.

Terminals: Solder plated, solderable per MIL-STD-750, method 208.

Approx. weight: 0.002 gram



CDSH3-16-G CDSH3-99-G CDSH3-70-G CDSH3-56-G



### Maximum Ratings and Electrical Characteristics

( at Ta = 25°C unless otherwise noted )

Parameter	Condition	Symbol	Value	Unit
Repetitive peak reverse voltage		V <sub>R</sub> RM	85	V
Reverse voltage		V <sub>R</sub>	85	V
Forward continue current		I <sub>FM</sub>	155	mA
Surge peak forward current	T = 1us	I <sub>FSM</sub>	4	A
Power dissipation		P <sub>d</sub>	150	mW
Maximum forward voltage	@ IF= 1 mA @ IF= 10 mA @ IF= 50mA @ IF= 150mA	V <sub>F</sub>	0.715 0.855 1.0 1.25	V
Maximum reverse current	@ VR= 75V @ VR= 75V, T <sub>j</sub> = 150°C @ VR= 25V, T <sub>j</sub> = 150°C @ VR= 25V,	I <sub>R</sub>	2.0 100 60 30	uA
Max reverse recovery time	IF=10mA, R=100 ohms	T <sub>rr</sub>	4	nS
Typical diode capacitnace	VR=0V, f=1MHz	C <sub>T</sub>	1.5	pF
Max. operation junction temperature		T <sub>j</sub>	150	°C
Storage temperature		T <sub>STG</sub>	-55 to +150	°C

Rev. A

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## RATING AND CHARACTERISTIC CURVES (CDSH3-99-G/70-G/56-G/16-G)

Fig. 1 - Forward characteristics

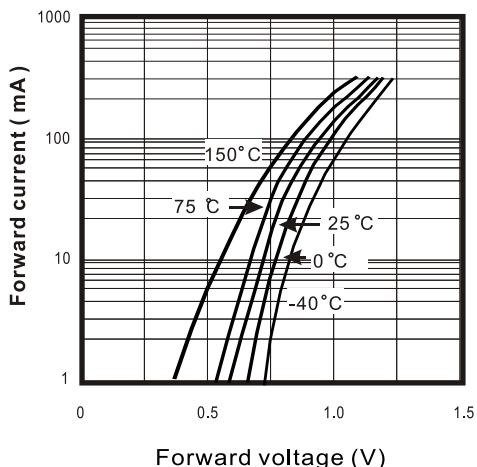


Fig. 2 - Reverse characteristics

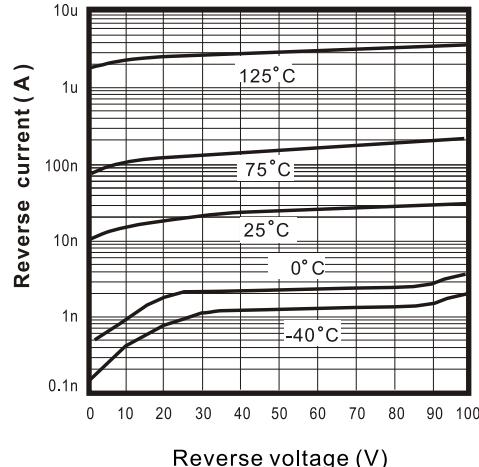


Fig. 3 - Capacitance between terminals characteristics

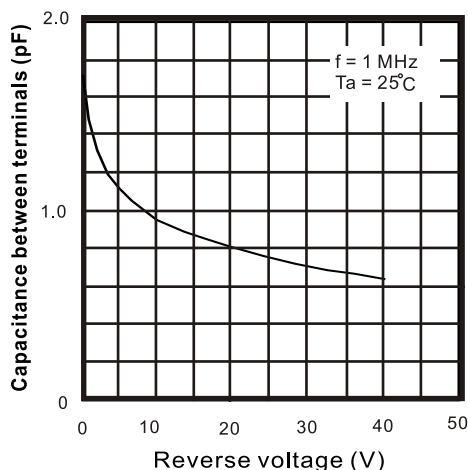


Fig. 4 - Current derating curve

