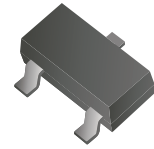


## CDSH3-16-G/56-G/70-G/99-G

**Reverse Voltage: 85 Volts**  
**Forward Current: 155 mA**  
**RoHS Device**



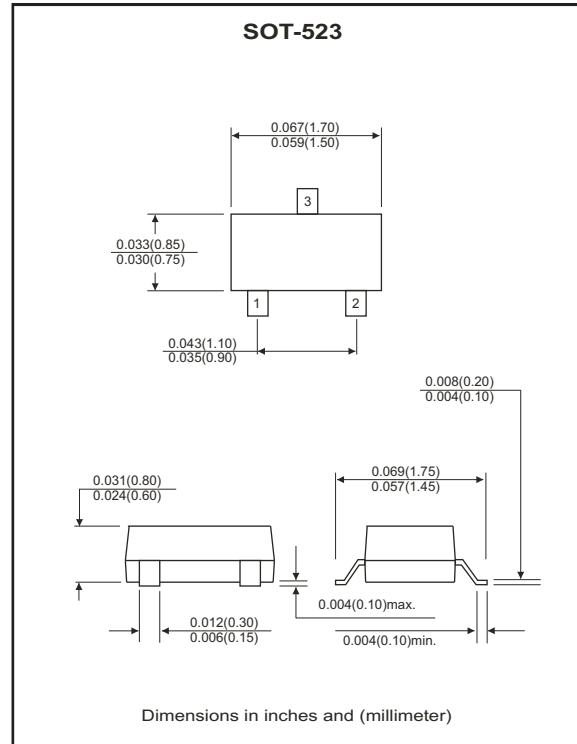
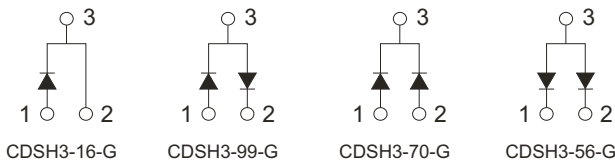
### Features

- 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



### Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	$V_{RRM}$		85	V
Reverse voltage	$V_R$		85	V
Forward current	$I_F$		155	mA
Peak surge forward current	$I_{FSM}$	T=1.0 $\mu$ S	4	A
Power dissipation	$P_D$		150	mW
Maximum forward voltage	$V_F$	@ $I_F=1$ mA @ $I_F=10$ mA @ $I_F=50$ mA @ $I_F=100$ mA	0.715 0.855 1.0 1.25	V
Maximum reverse current	$I_R$	@ $V_R=20$ V @ $V_R=75$ V @ $V_R=25$ V, $T_J=150$ °C @ $V_R=75$ V, $T_J=150$ °C	0.03 2.0 60 100	$\mu$ A
Maximum reverse recovery time	$T_{rr}$	$I_F=10$ mA, $V_R=6$ V, $R_L=100\Omega$	4	nS
Typical diode capacitance	$C_J$	$V_R=0$ V, $f=1.0$ MHz	1.5	pF
Maximum junction temperature	$T_J$		150	°C
Storage temperature	$T_{STG}$		-55 to +150	°C

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

Fig.1 - Forward Characteristics

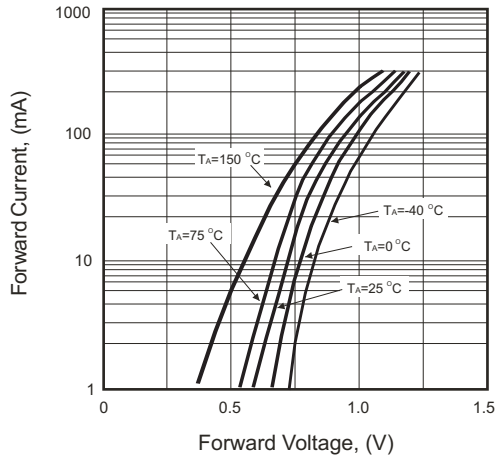


Fig.2 - Reverse Characteristics

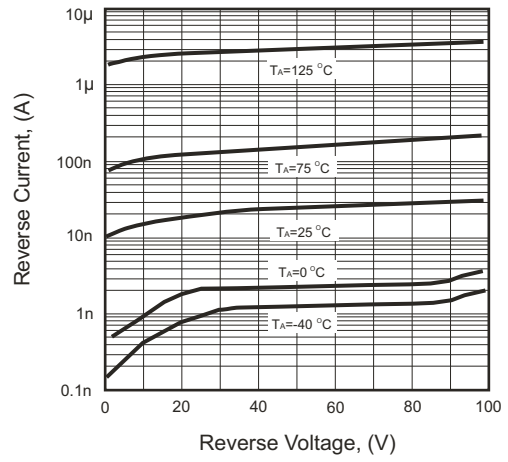


Fig.3 - Capacitance Between Terminals Characteristics

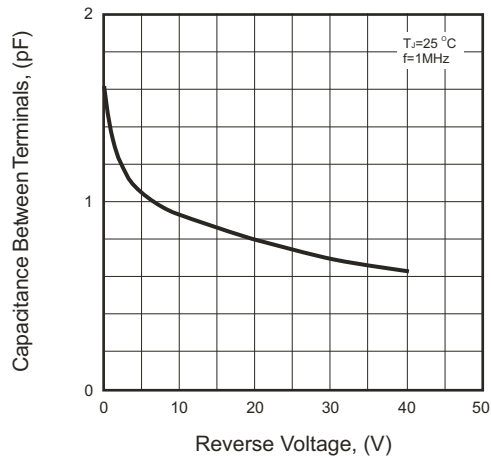


Fig.4 - Power Derating Curve

