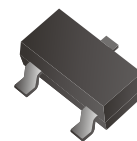


CDSH3-16-G/56-G/70-G/99-G

Reverse Voltage: 85 Volts

Forward Current: 155 mA

RoHS Device



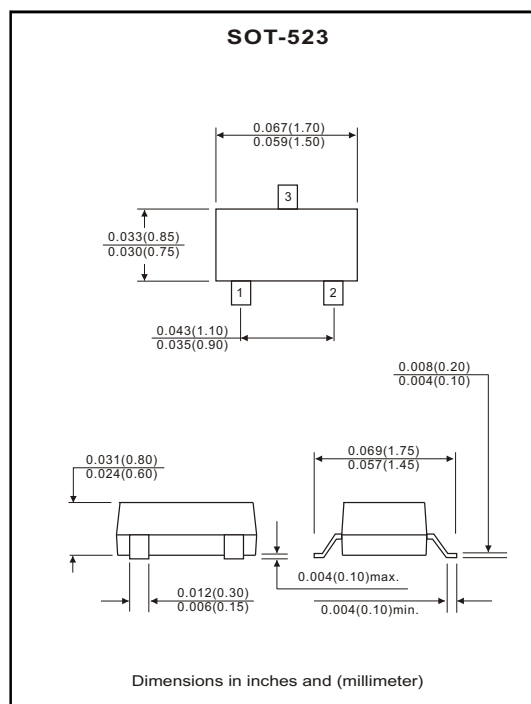
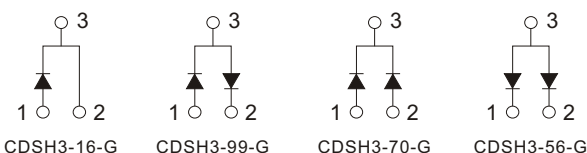
Features

- 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 μ 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, $T_J=150^\circ$ C @ $V_R=75$ V, $T_J=150^\circ$ C	0.03 2.0 60 100	μ 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	$^\circ$ C
Storage temperature	T_{STG}		-55 to +150	$^\circ$ C

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

Fig.1 Forward Characteristics

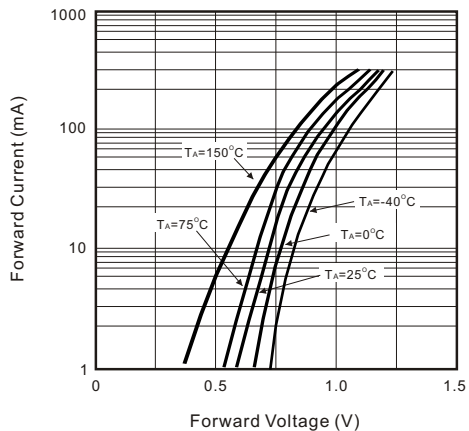


Fig.2 Reverse Characteristics

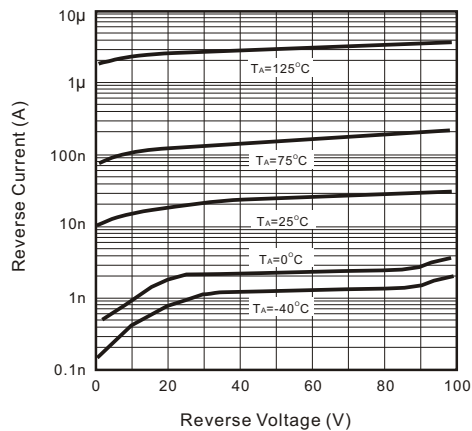


Fig.3 Capacitance Between Terminals Characteristics

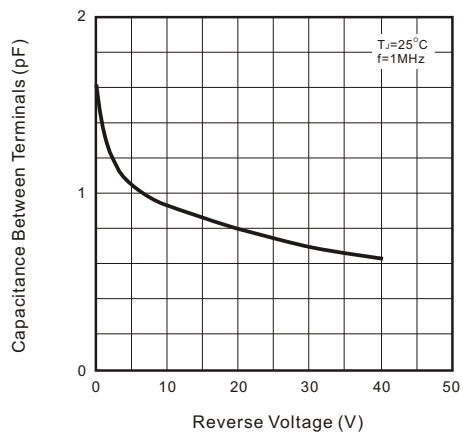


Fig.4 Power Derating Curve

