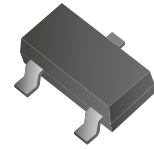


CDSH3-16-G/56-G/70-G/99-G

Reverse Voltage: 85 Volts

Forward Current: 155 mA

RoHS Device



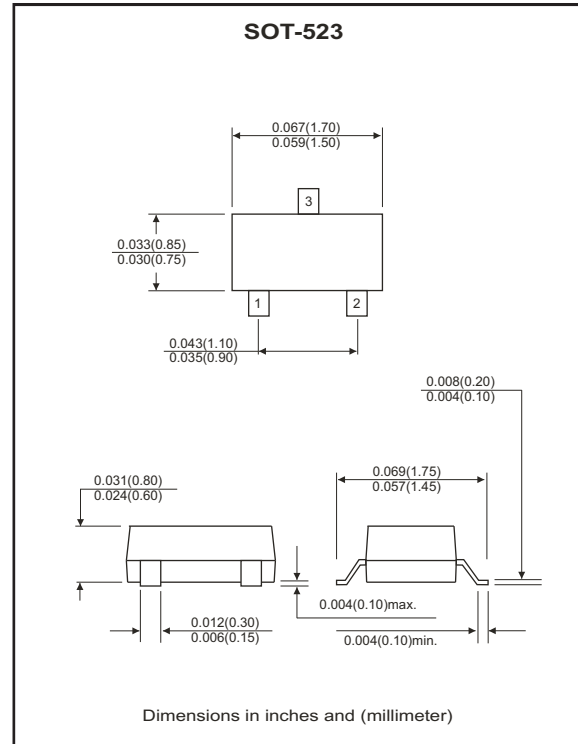
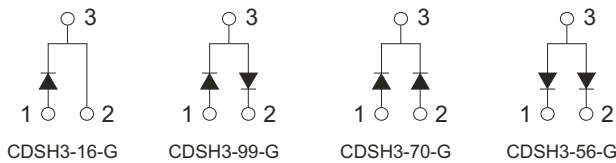
Features

- 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 =1mA @ I_F =10mA @ I_F =50mA @ I_F =100mA	0.715 0.855 1.0 1.25	V
Maximum reverse current	I_R	@ V_R =20V @ V_R =75V @ V_R =25V, T _J =150 °C @ V_R =75V, T _J =150 °C	0.03 2.0 60 100	μ A
Maximum reverse recovery time	T_{rr}	I_F =10mA, V_R =6V, R_L =100 Ω	4	nS
Typical diode capacitance	C_J	V_R =0V, f=1.0MHz	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

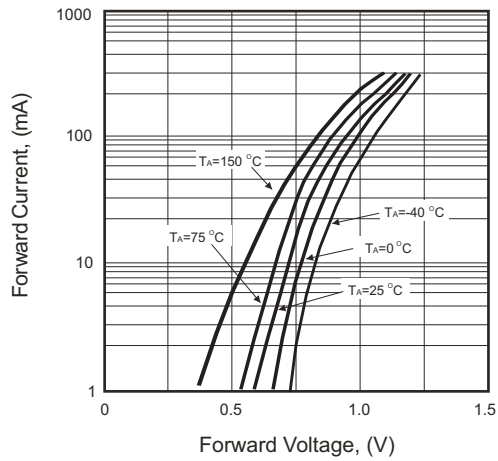


Fig.2 - Reverse Characteristics

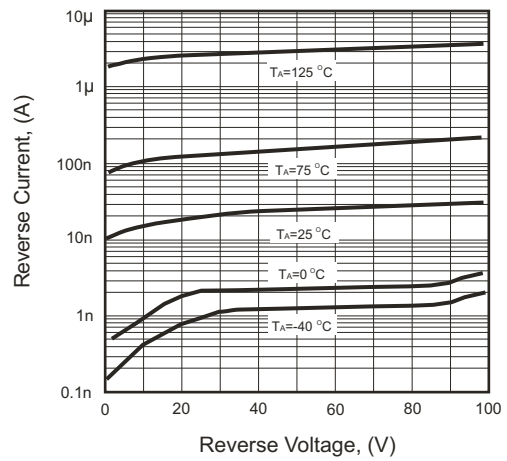


Fig.3 - Capacitance Between Terminals Characteristics

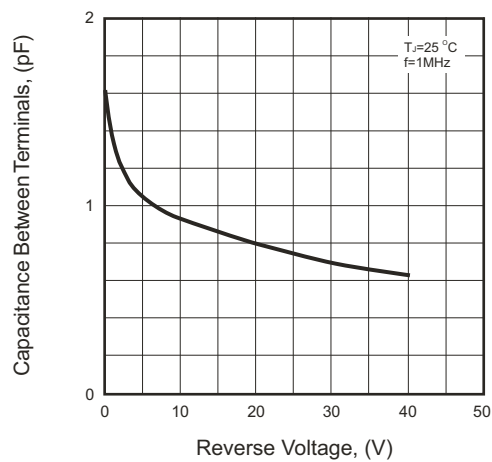
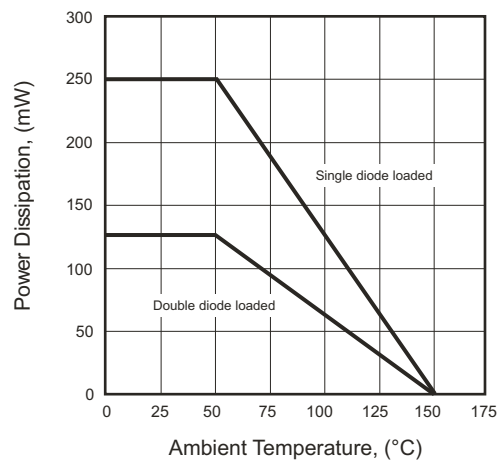


Fig.4 - Power Derating Curve



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