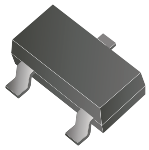
CDST-7000-G

Reverse Voltage: 100 Volts
Forward Current: 200 mA
RoHS Device



Features

-Design for mounting on small surface.

-High speed switching.

-High mounting capability, strong surge withstand, high reliability.

Mechanical data

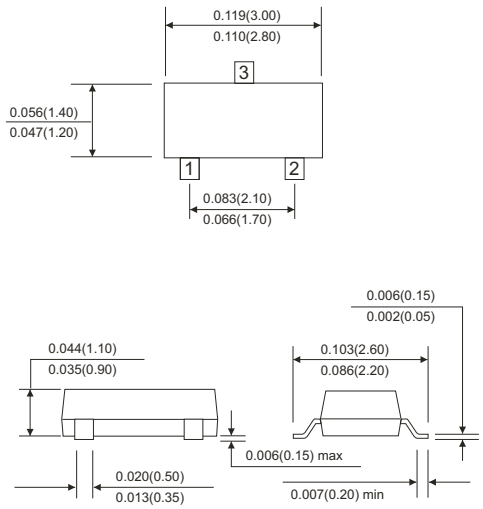
-Case: SOT-23, molded plastic.

-Terminals: solderable per MIL-STD-750, method 2026.

-Polarity: indicated by cathode band.

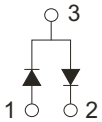
-Approx. weight: 0.008 grams

SOT-23



Dimensions in inches and (millimeter)

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}		100	V
Reverse voltage	V_R		100	V
Forward current	I_F		200	mA
Peak surge forward current	I_{FSM}	T=1.0 μS	2	A
Power dissipation	P_D		225	mW
Maximum forward voltage	V_F	@I_F=1mA @I_F=10mA @I_F=100mA	0.7 0.82 1.1	V
Maximum reverse current	I_R	@V_R=100V @V_R=50V	3 1	μA
Maximum reverse recovery time	T_{rr}	I_F=10mA, R_L=50Ω, V_R=6V	4	nS
Typical diode capacitance	C_J	V_R=0V, f=1.0MHz	2	pF
Maximum junction temperature	T_J		150	°C
Storage temperature	T_{STG}		-55 to +150	

RATING AND CHARACTERISTIC CURVES (CDST-7000-G)

Fig.1 - Forward Characteristics

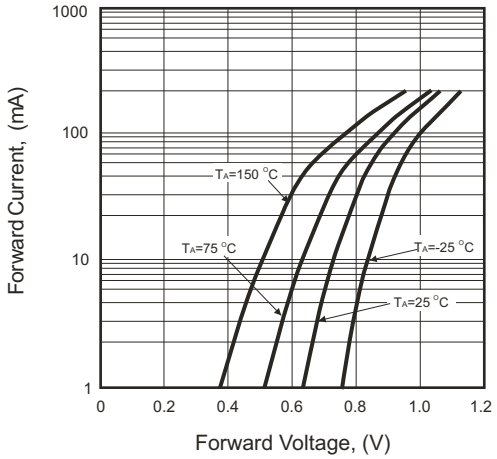


Fig.2 - Reverse Characteristics

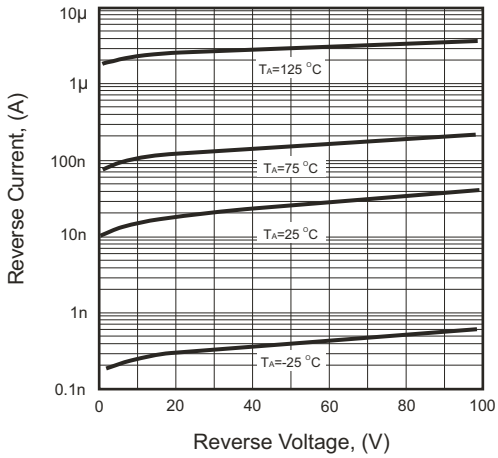


Fig.3 - Capacitance Between Terminals Characteristics

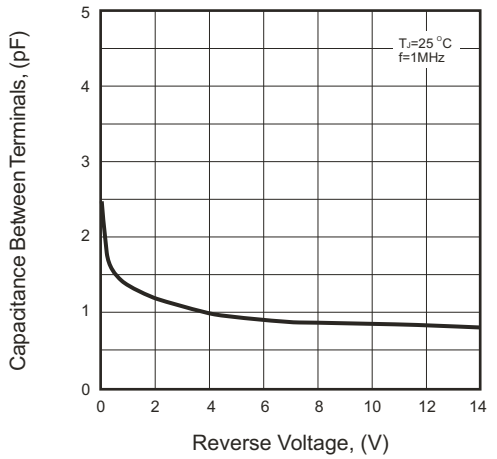


Fig.4 - Current Derating Curve