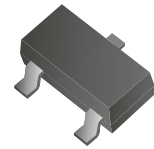


CDST-7000-G

Reverse Voltage: 100 Volts

Forward Current: 200 mA

RoHS Device



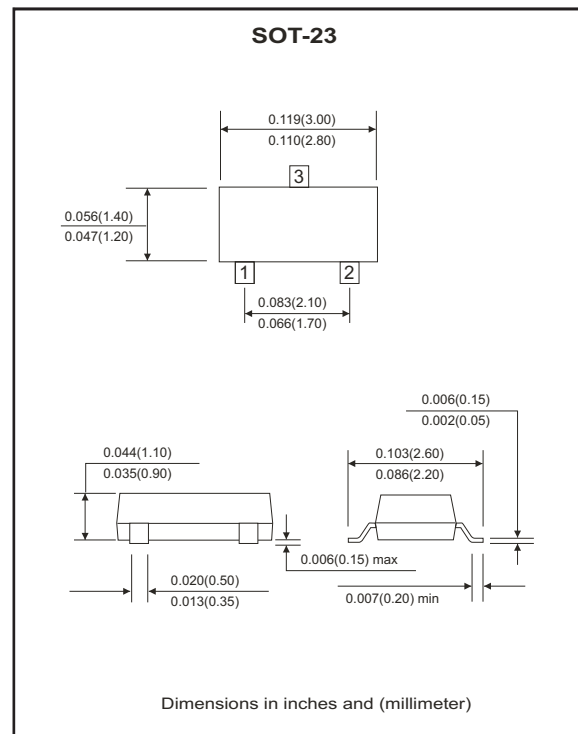
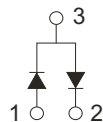
Features

- 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

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}	$T=1.0 \mu S$	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}	$I_F=10mA$, $R_L=50\Omega$, $V_R=6V$	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

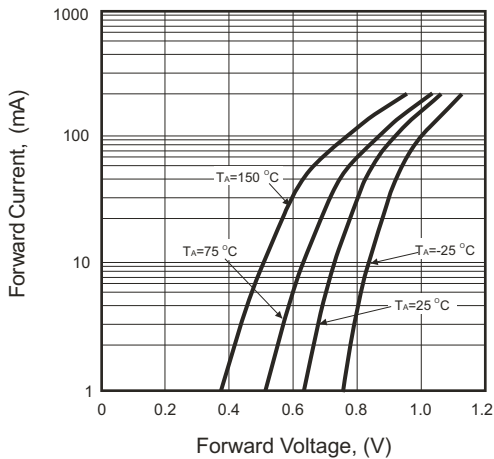


Fig.2 - Reverse Characteristics

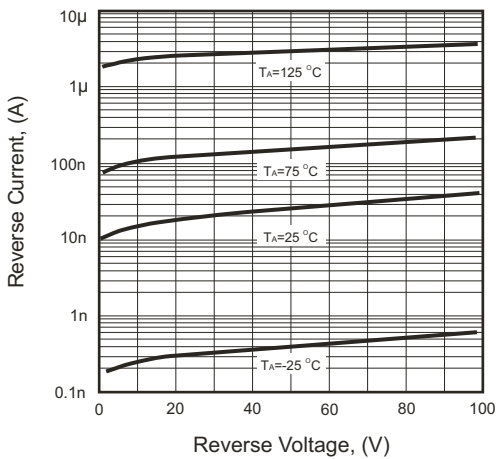


Fig.3 - Capacitance Between Terminals Characteristics

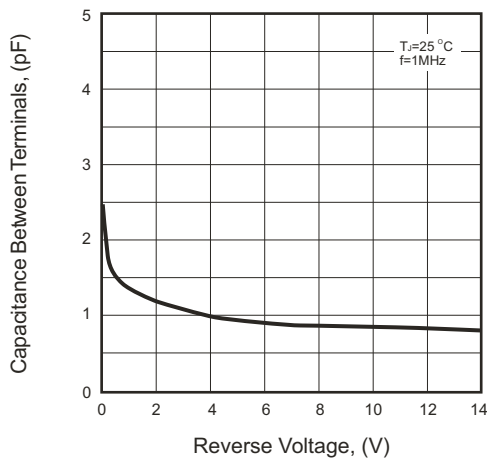
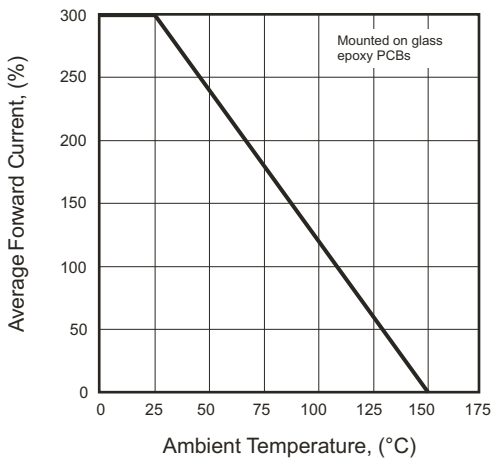


Fig.4 - Current Derating Curve



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