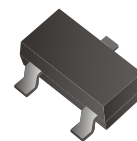


CDST-7000-G

Reverse Voltage: 100 Volts

Forward Current: 200 mA

RoHS Device



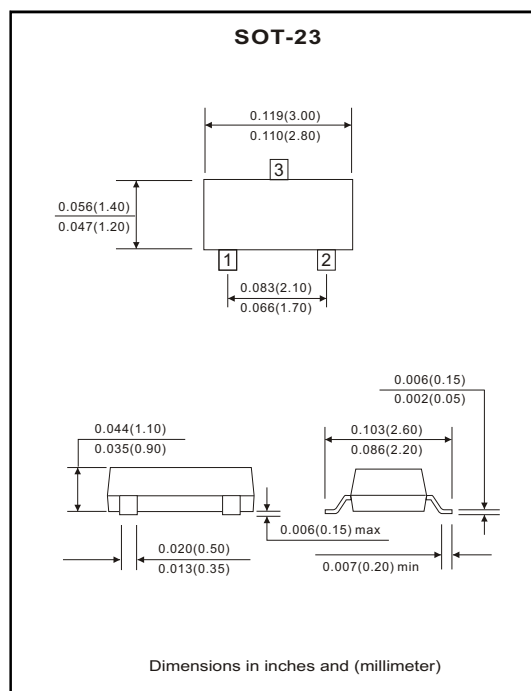
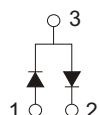
Features

- 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 μ S	2	A
Power dissipation	P_D		225	mW
Maximum forward voltage	V_F	@ $I_F=1$ mA @ $I_F=10$ mA @ $I_F=100$ mA	0.7 0.82 1.1	V
Maximum reverse current	I_R	@ $V_R=100$ V @ $V_R=50$ V	3 1	μ A
Maximum reverse recovery time	T_{rr}	$I_F=10$ mA, $R_L=50\Omega$, $V_R=6$ V	4	nS
Typical diode capacitance	C_J	$V_R=0$ V, f=1.0MHz	2	pF
Maximum junction temperature	T_J		150	$^{\circ}$ C
Storage temperature	T_{STG}		-55 to +150	

RATING AND CHARACTERISTIC CURVES (CDST-7000-G)

Fig.1 Forward Characteristics

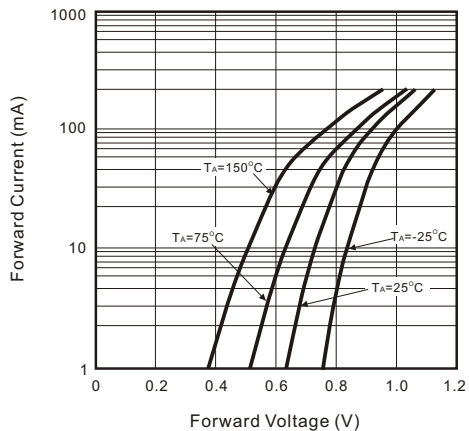


Fig.2 Reverse Characteristics

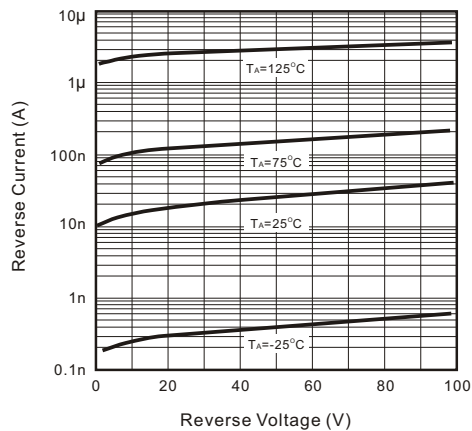


Fig.3 Capacitance Between Terminals Characteristics

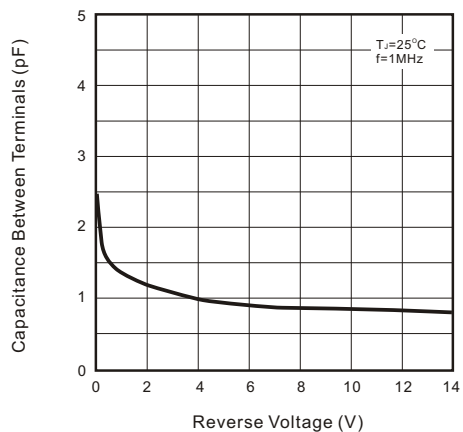


Fig.4 Current Derating Curve

