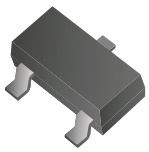
CDBT-70/S/C/A-G

Reverse Voltage: 70 Volts
Forward Current: 70 mA
RoHS Device



Features

-Design for mounting on small surface.

-High speed switching application, circuit protection.

-Low turn-on voltage.

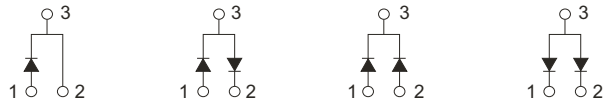
Mechanical data

-Case: SOT-23, molded plastic.

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

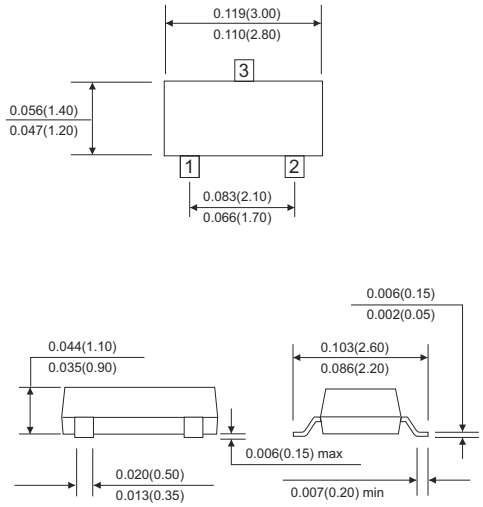
-Approx. weight: 0.008 grams

Circuit diagram



CDBT-70-G CDBT-70S-G CDBT-70C-G CDBT-70A-G

SOT-23



Dimensions in inches and (millimeter)

Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	V_{RRM}		70	V
Reverse voltage	V_R		70	V
Forward current	I_F		70	mA
Peak surge forward current	I_{FSM}	T<1.0 sec	0.1	A
Power dissipation	P_D		200	mW
Maximum forward voltage	V_F	@I_F=1.0mA, tp<300μS @I_F=15mA, tp<300μS	0.41 1.0	V
Maximum reverse current	I_R	@V_R=50V	0.1	μA
Maximum reverse recovery time	T_{rr}	I_F=I_R=10mA, R_L=100Ω	2	nS
Maximum diode capacitance	C_T	V_R=0V, f=1.0MHz	5	pF
Maximum junction temperature	T_J		125	°C
Storage temperature	T_{STG}		-65 to +150	°C

RATING AND CHARACTERISTIC CURVES (CDBT-70/S/C/A-G)

Fig.1 Forward Characteristics

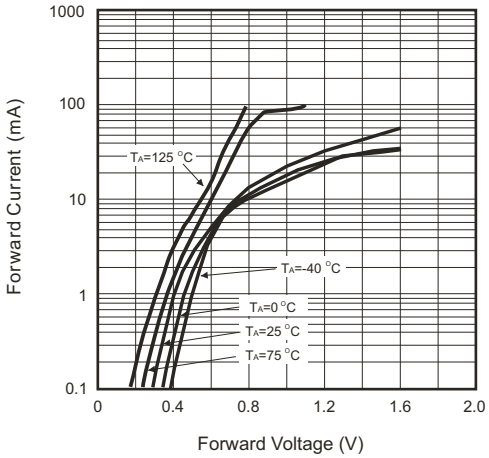


Fig.2 Reverse Characteristics

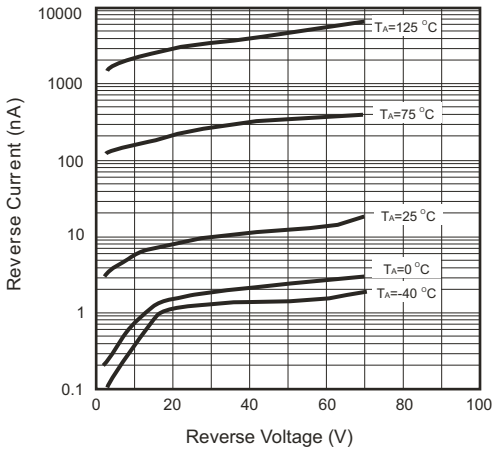


Fig.3 Capacitance Between Terminals Characteristics

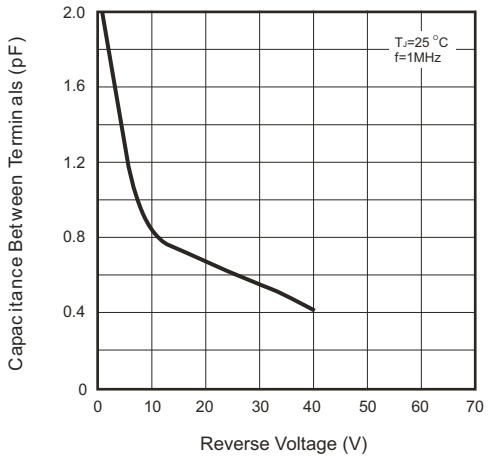


Fig.4 Power Derating Curve