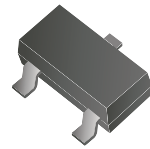


CDBT-70/S/C/A-G

Reverse Voltage: 70 Volts

Forward Current: 70 mA

RoHS Device



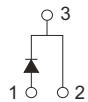
Features

- Design for mounting on small surface.
- High speed switching application, circuit protection.
- Low turn-on voltage.

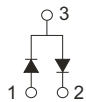
Mechanical data

- Case: SOT-23, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Approx. weight: 0.008 grams

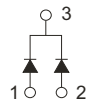
Circuit diagram



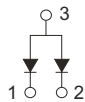
CDBT-70-G



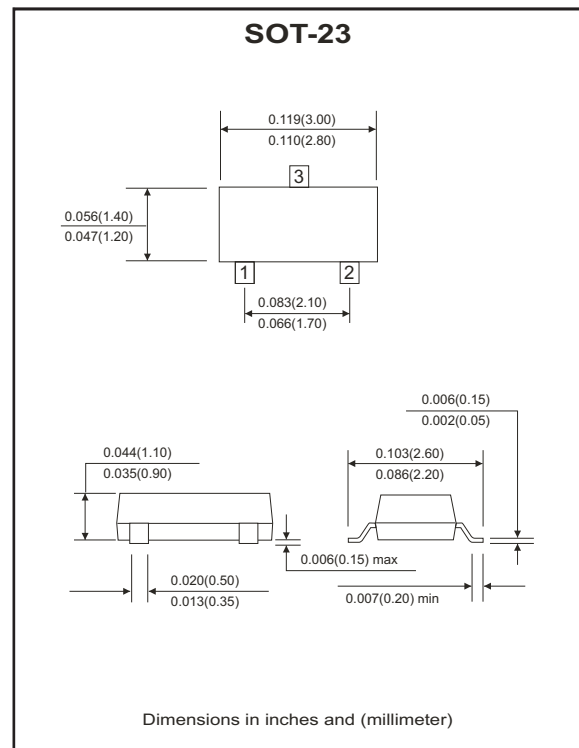
CDBT-70S-G



CDBT-70C-G



CDBT-70A-G



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}	$T < 1.0 \text{ sec}$	0.1	A
Power dissipation	P_D		200	mW
Maximum forward voltage	V_F	@ $I_F = 1.0 \text{ mA}$, $t_p < 300 \mu\text{s}$ @ $I_F = 15 \text{ mA}$, $t_p < 300 \mu\text{s}$	0.41 1.0	V
Maximum reverse current	I_R	@ $V_R = 50 \text{ V}$	0.1	μA
Maximum reverse recovery time	T_{rr}	$I_F = I_R = 10 \text{ mA}$, $R_L = 100 \Omega$	2	nS
Maximum diode capacitance	C_T	$V_R = 0 \text{ V}$, $f = 1.0 \text{ MHz}$	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

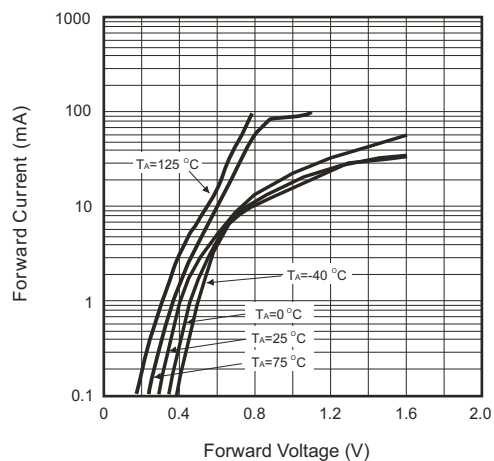


Fig.2 Reverse Characteristics

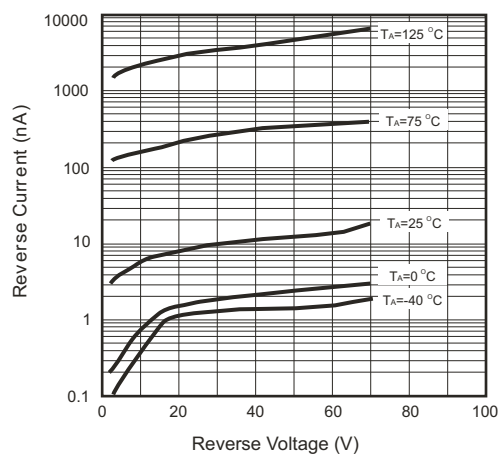


Fig.3 Capacitance Between Terminals Characteristics

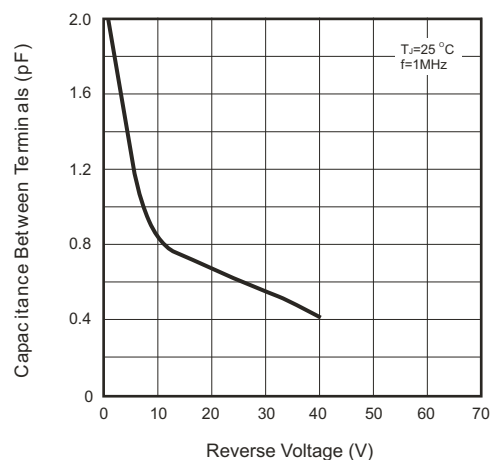


Fig.4 Power Derating Curve

