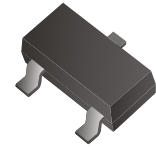


CDBT-54/S/C/A-G

Reverse Voltage: 30 Volts
Forward Current: 200 mA
RoHS Device



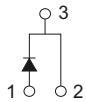
Features

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

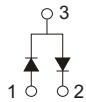
Mechanical data

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

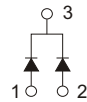
Circuit diagram



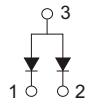
CDBT-54-G



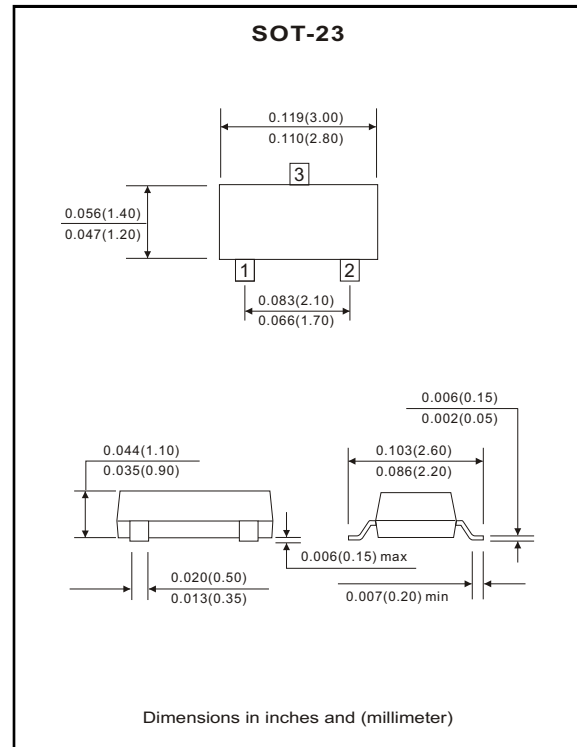
CDBT-54S-G



CDBT-54C-G



CDBT-54A-G



Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	V_{RRM}		30	V
Reverse voltage	V_R		30	V
Forward current	I_F		200	mA
Peak surge forward current	I_{FSM}	T<1.0 sec	0.6	A
Power dissipation	P_D		200	mW
Maximum forward voltage	V_F	@ $I_F=0.1mA$ @ $I_F=1mA$ @ $I_F=10mA$ @ $I_F=30mA$ @ $I_F=100mA$	0.24 0.32 0.40 0.50 1.00	V
Maximum reverse current	I_R	@ $V_R=25V$	2	μA
Maximum reverse recovery time	T_{rr}	$I_F=I_R=10mA, R_L=100\Omega$	5	nS
Maximum diode capacitance	C_J	$V_R=1V, f=1.0MHz$	10	pF
Maximum junction temperature	T_J		125	°C
Storage temperature	T_{STG}		-65 to +125	°C

RATING AND CHARACTERISTIC CURVES (CDBT-54/S/C/A-G)

Fig.1 Forward Characteristics

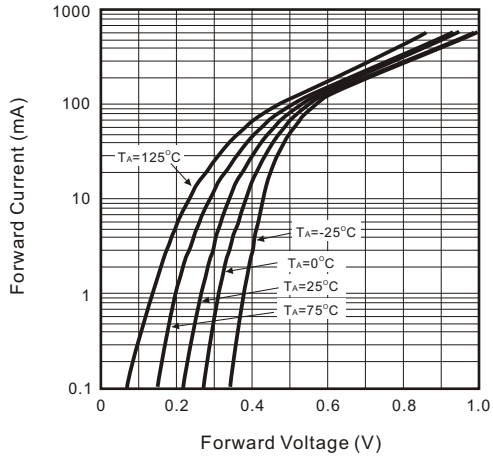


Fig.2 Reverse Characteristics

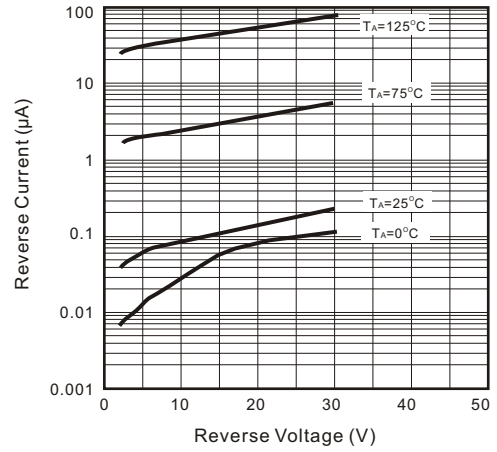


Fig.3 Capacitance Between Terminals Characteristics

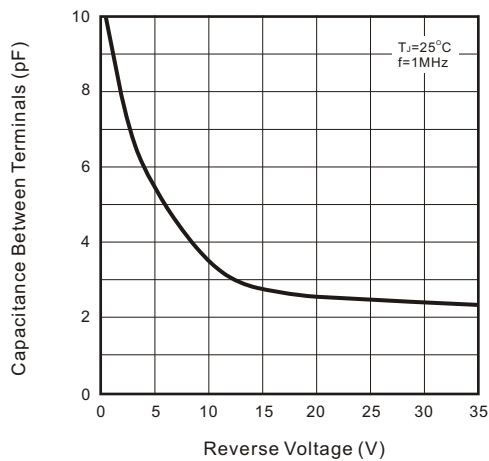


Fig.4 Power Derating Curve

