

## CDBT-70/S/C/A-G

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



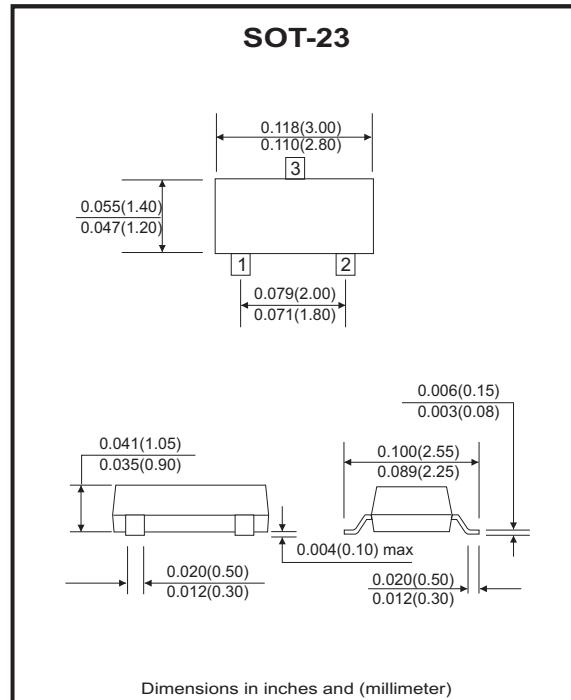
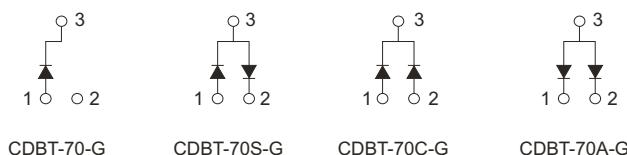
### Features

- 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



### Maximum Ratings and Electrical Characteristics

(at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Value	Units
Repetitive peak reverse voltage	V <sub>RRM</sub>		70	V
Reverse voltage	V <sub>R</sub>		70	V
Forward continuous current	I <sub>F</sub>		70	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub>	T=1.0 sec	100	mA
Power dissipation	P <sub>D</sub>		200	mW
Maximum forward voltage	V <sub>F</sub>	@I <sub>F</sub> =1.0mA @I <sub>F</sub> =15mA	410 1000	mV
Maximum reverse leakage current	I <sub>R</sub>	@V <sub>R</sub> =50V	100	nA
Maximum reverse recovery time	T <sub>rr</sub>	I <sub>F</sub> =I <sub>R</sub> =10mA, R <sub>L</sub> =100Ω, I <sub>rr</sub> =0.1*I <sub>R</sub>	5	nS
Maximum diode capacitance	C <sub>D</sub>	V <sub>R</sub> =0V, f=1.0MHz	2	pF
Thermal Resistance Junction to Ambient	R <sub>θJA</sub>		500	°C/W
Junction temperature	T <sub>J</sub>		125	°C
Storage temperature	T <sub>STG</sub>		-55 to +150	°C

Company reserves the right to improve product design , functions and reliability without notice.

REV:B

# Small Signal Schottky Diodes

**Comchip**  
SMD Diode Specialist

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

Fig.1 - Forward Characteristics

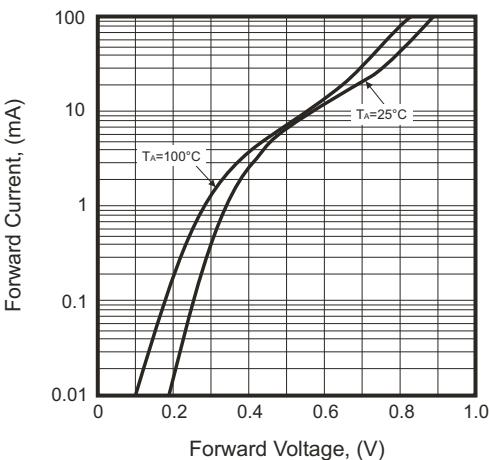


Fig.2 - Reverse Characteristics

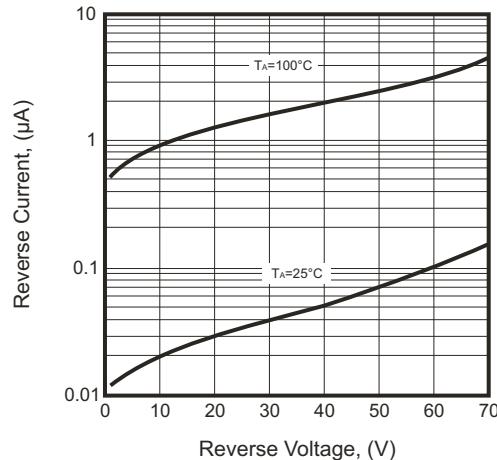


Fig.3 - Capacitance Characteristics

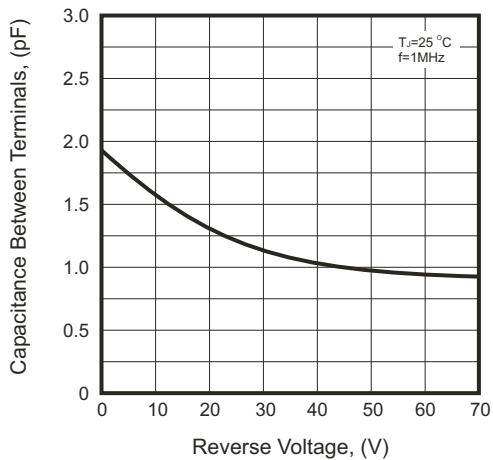
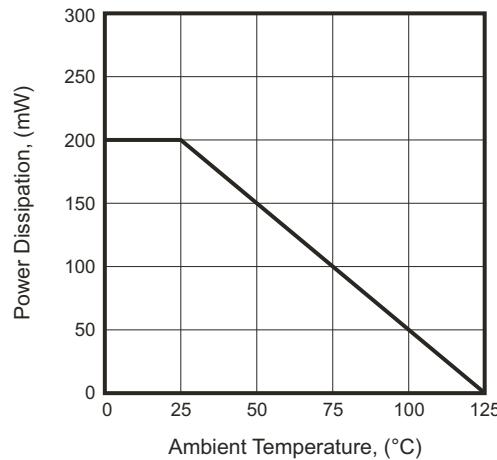


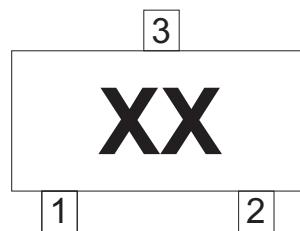
Fig.4 - Power Derating Curve



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## Marking Code

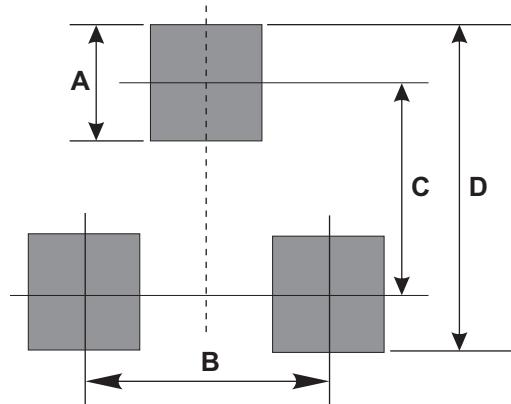
Part Number	Marking Code
CDBT-70-G	73
CDBT-70A-G	76
CDBT-70C-G	75
CDBT-70S-G	74



**xx = Product type marking code**

## Suggested PAD Layout

SIZE	SOT-23	
	(mm)	(inch)
A	0.80	0.031
B	1.90	0.075
C	2.02	0.080
D	2.82	0.111



## Standard Packaging

Case Type	REEL PACK	
	REEL ( pcs )	Reel Size (inch)
SOT-23	3,000	7