

CDBT0230-HF

Reverse Voltage: 30 Volts

Forward Current: 200 mA

RoHS Device

Halogen Free



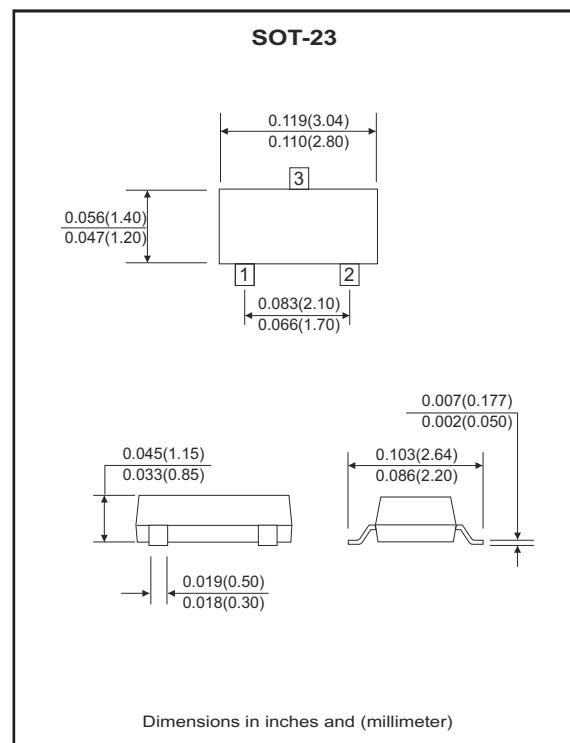
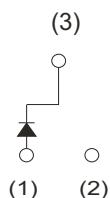
Features

- Small surface mounting type.
- Low IR. (IR=10uA Typ.)
- High reliability.

Mechanical data

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

Circuit diagram



Maximum Ratings and Electrical Characteristics

(at Ta=25 °C unless otherwise noted)

Parameter	Symbol	Value	Units
Maximum recurrent peak reverse voltage	V _{RPM}	30	V
Maximum RMS voltage	V _{RMS}	21	V
Maximum DC blocking voltage	V _{DC}	30	V
Maximum average forward rectified current	I _o	0.2	A
Peak forward surge current at 8.3m sec single half sine-wave	I _{FSM}	3.0	A
Maximum instantaneous forward voltage at I _F =0.2A	V _F	0.5	V
Maximum average reverse current at V _{R(1)} =30V	I _{R(1)}	5	uA
Maximum average reverse current at V _{R(2)} =10V	I _{R(2)}	1	uA
Typical junction capacitance between terminal (Note 1)	C _J	40	pF
Maximum operating temperature range	T _J	-55 to +125	°C
Storage temperature range	T _{STG}	-55 to +125	°C

Notes: 1. Measured at 1.0MHz and 0 reverse bias voltage.

2. ESD sensitive product handling required.

Small Signal Schottky Diodes

Comchip
SMD Diode Specialist

RATING AND CHARACTERISTIC CURVES (CDBT0230-HF)

Fig.1 - Forward Characteristics

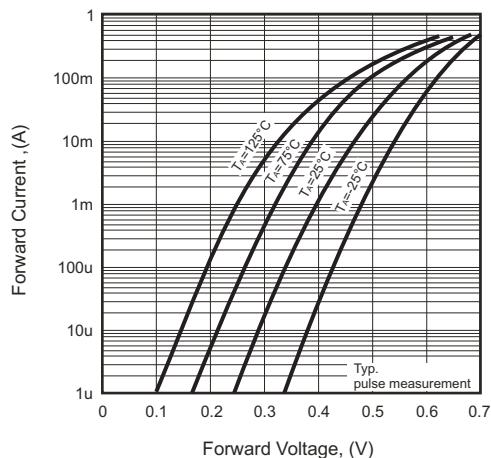


Fig.2 - Reverse Characteristics

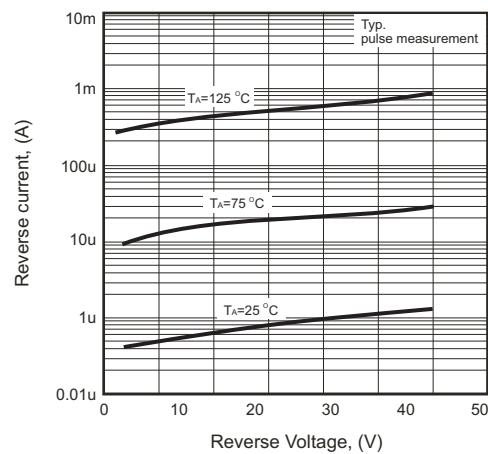


Fig.3 - Typical Junction Capacitance

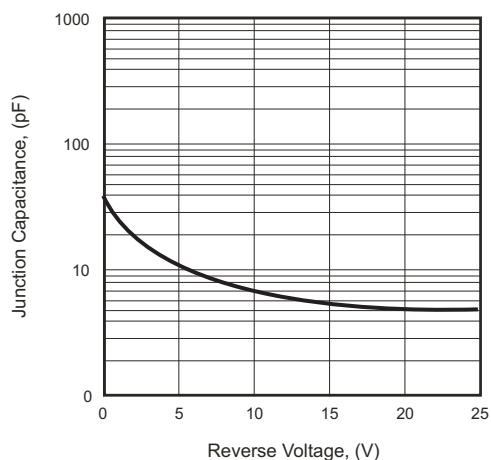
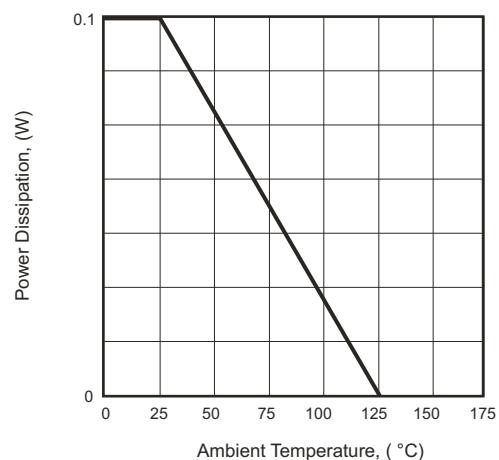
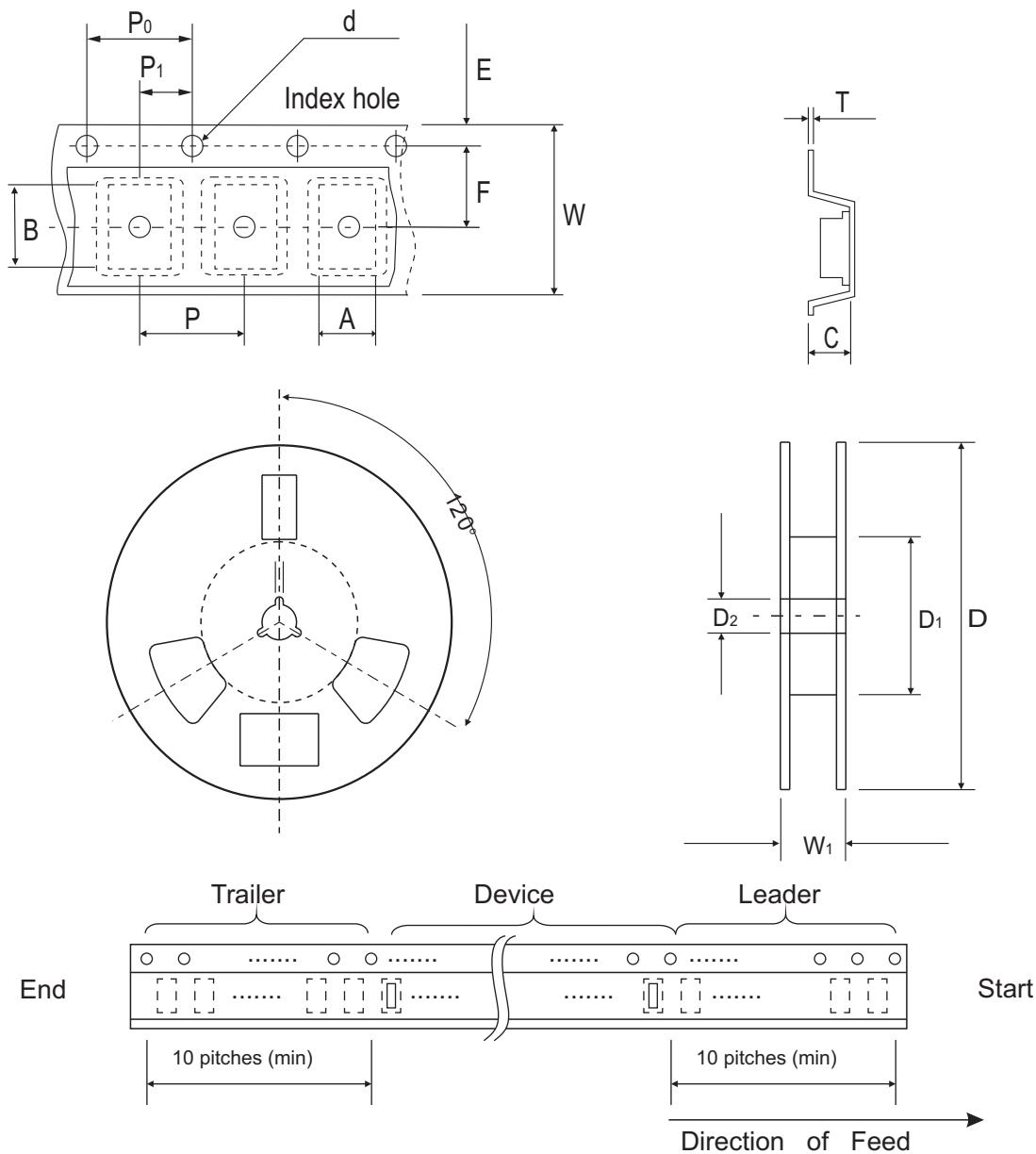


Fig.4 - Forward Power Dissipation Characteristics



Reel Taping Specification

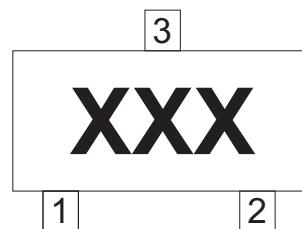


SOT-23	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	3.15 ± 0.10	2.77 ± 0.10	1.22 ± 0.10	1.50 ± 0.10	178 ± 1.00	54.40 ± 0.40	13.00 ± 0.20
	(inch)	0.124 ± 0.004	0.109 ± 0.004	0.048 ± 0.004	0.059 ± 0.004	7.008 ± 0.039	2.142 ± 0.016	0.512 ± 0.008

SOT-23	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	$8.00 \pm 0.30 / -0.10$	9.50 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	$0.315 \pm 0.012 / -0.004$	0.374 ± 0.039

Marking Code

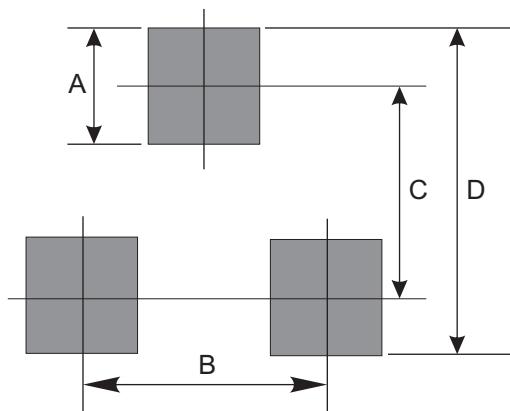
Part Number	Marking Code
CDBT0230-HF	05H



xxx = 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	Qty Per Reel	Reel Size
	(Pcs)	(inch)
SOT-23	3,000	7