

CDBV0230-G

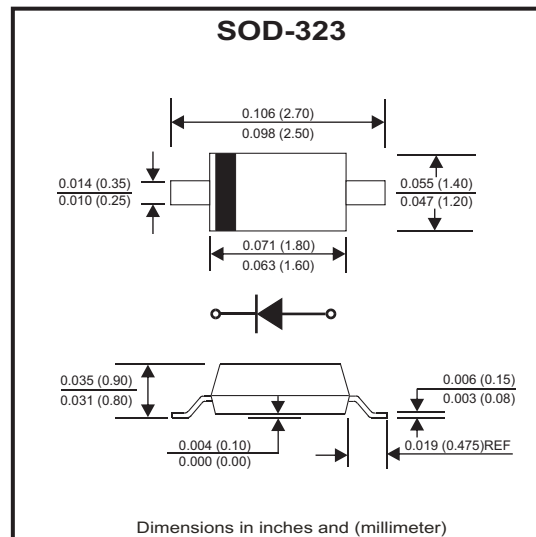
Reverse Voltage: 30 Volts
Forward Current: 200 mA
RoHS Device


Features

- Extremely fast switching speed.
- Small surface mount type.
- Low forward voltage.

Mechanical data

- Case: SOD-323 standard package, Molded Plastic
- Terminals: Solderable per MIL-STD-750, method 2026
- Mounting position: Any
- Weight: 0.01 grams(approx.)



Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Non-repetitive peak reverse voltage	V_{RM}	30	V
DC blocking voltage	V_{DC}	21	V
Average rectified output current	I_O	100	mA
Forward continuous current	I_F	200	mA
Repetitive peak forward current	I_{FRM}	300	mA
Forward surge current	I_{FSM}	600	mA
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	T_J	125	°C
Storage temperature range	T_{STG}	-65 ~ +150	°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	30			V
Forward voltage	V_{F1}	$I_F=0.1mA$			240	mV
	V_{F2}	$I_F=1.0mA$			320	mV
	V_{F3}	$I_F=10mA$			400	mV
	V_{F4}	$I_F=30mA$			500	mV
	V_{F5}	$I_F=100mA$			1000	mV
Reverse current	I_R	$V_R=25V$			2	uA
Capacitance between terminals	C_T	$V_R=1V, f=1.0MHz$			10	pF
Reverse recovery time	t_{rr}	$I_F=10mA, I_R=10mA \text{ to } 1mA$ $R_L=100\Omega$			5	nS

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

REV: B

RATING AND CHARACTERISTIC CURVES (CDBV0230-G)

Fig.1 - Power Derating Curve

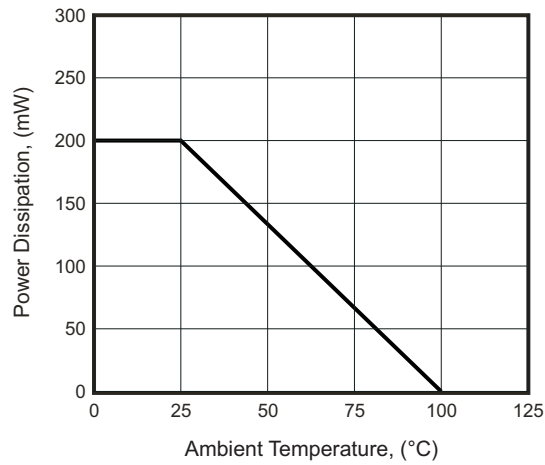


Fig.2 - Reverse Characteristics

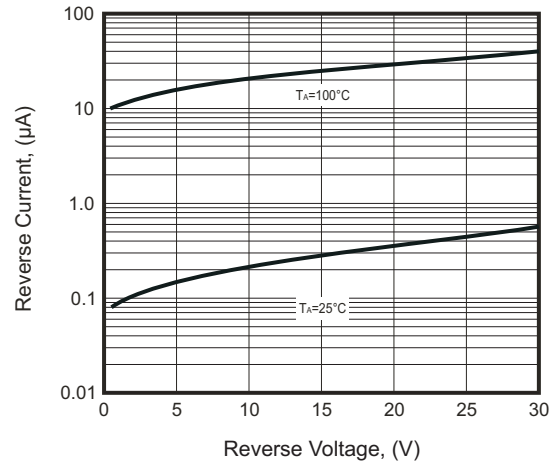


Fig.3 - Forward Characteristics

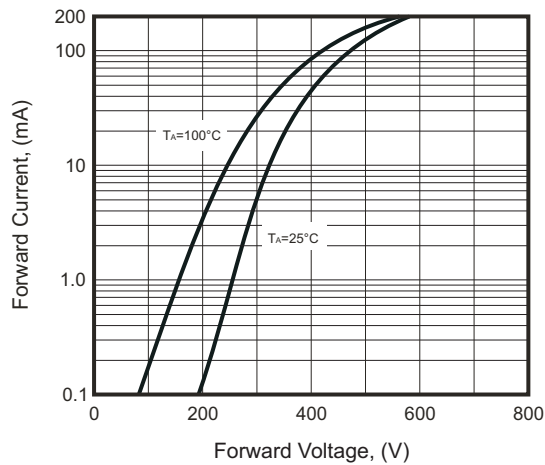
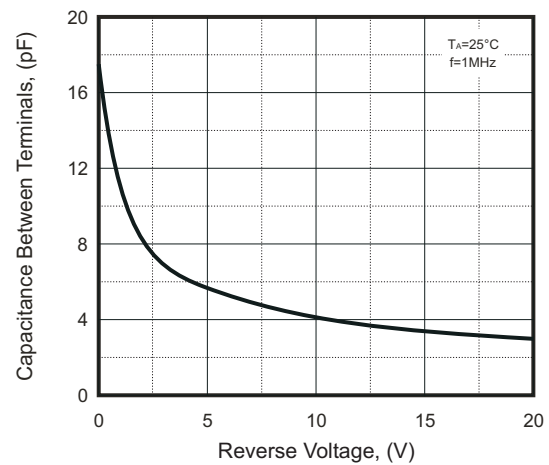
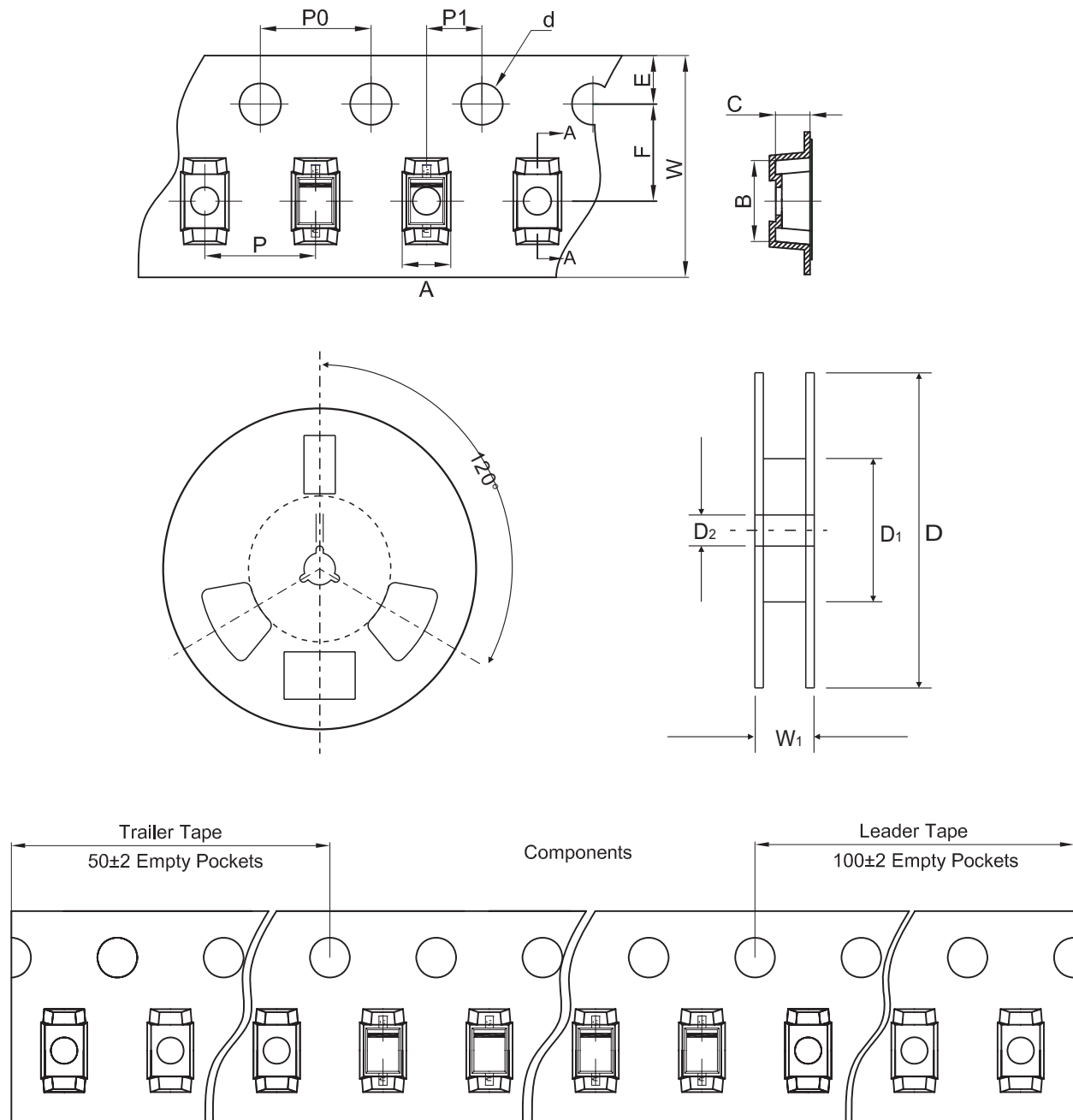


Fig.4 - Capacitance Characteristics



Reel Taping Specification



SOD-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.46 ± 0.05	2.90 ± 0.05	1.25 ± 0.05	1.50 ± 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.057 ± 0.002	0.114 ± 0.002	0.049 ± 0.002	0.059 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

SOD-323	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	$8.00 \pm 0.30 / - 0.10$	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	$0.315 \pm 0.012 / - 0.004$	0.484 ± 0.039

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Marking Code

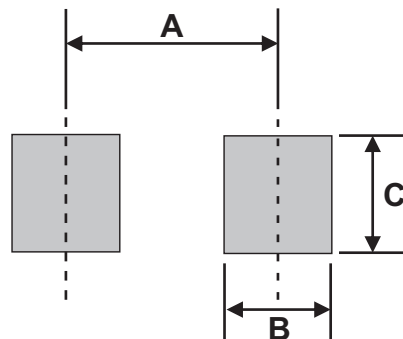
Part Number	Marking Code
CDBV0230-G	L9



xx = Product type marking code

Suggested PAD Layout

SIZE	SOD-323	
	(mm)	(inch)
A	2.15	0.085
B	0.70	0.028
C	0.70	0.028



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-323	3,000	7