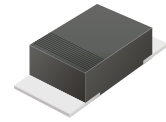


CDBW320-G Thru. CDBW3100-G

Reverse Voltage: 20 to 100 Volts

Forward Current: 3.0 Amp

RoHS Device

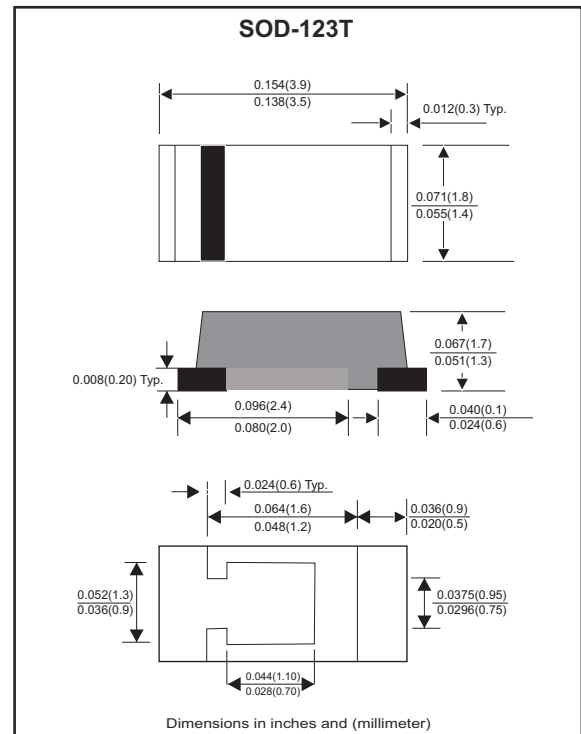


Features

- Ideal for surface mount applications.
- Easy pick and place.
- Plastic package has Underwriters Lab. flammability classification 94V-0.
- Exceeds environmental standard MIL-S-19500/228.
- Low leakage current.

Mechanical data

- Case: Molded plastic, JEDEC SOD-123T/Mini SMA.
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Weight: 0.018 grams approx.



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

Parameter		Symbol	CDBW 320-G	CDBW 330-G	CDBW 340-G	CDBW 350-G	CDBW 360-G	CDBW 380-G	CDBW 3100-G	Unit
Max. Repetitive peak reverse voltage		V _{RRM}	20	30	40	50	60	80	100	V
Max. Continuous reverse voltage		V _R	20	30	40	50	60	80	100	V
Max. RMS voltage		V _{RMS}	14	21	28	35	42	56	70	V
Max. averaged forward current		I _O	3.0							A
Maximum Instantaneous forward voltage at I _F =3.0A		V _F	0.50			0.70		0.85		V
Max. Forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	80							A
Max.Reverse current	V _R =V _{RRM} T _J =25°C	I _R	0.2							mA
	V _R =V _{RRM} T _J =100°C	I _R	20							
Typ. Thermal resistance		R _{θJC}	30							°C/W
Typ. Diode Junction capacitance (Note 1)		C _J	250							pF
Operating temperature		T _J	-55 to +125			-55 to +150				°C
Storage temperature range		T _{STG}	-65 to +175							°C

Note : 1. F=1MHz and applied 4V DC reverse voltage

Rating and Characteristic Curves (CDBM320-G Thru. CDBM3100-G)

Fig.1- Current Derating Curve

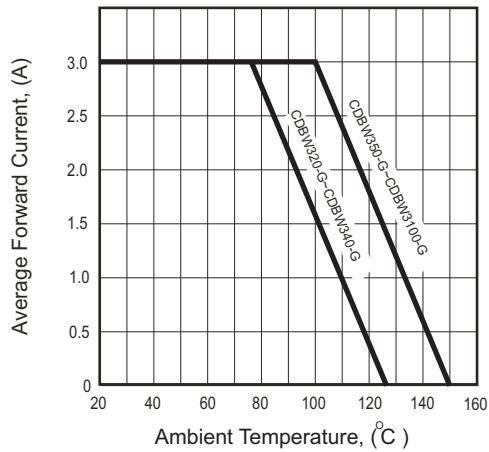


Fig.2 - Typical Forward Characteristics

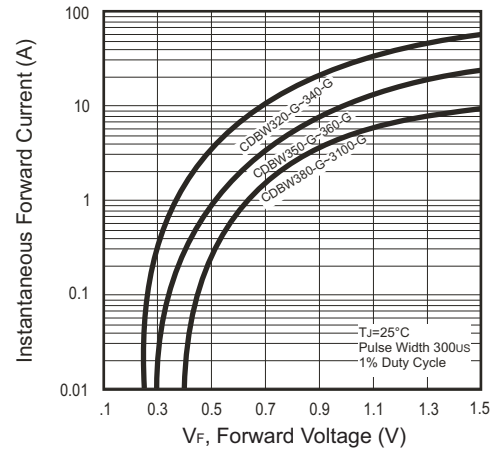


Fig.3 - Maximum Non-repetitive Forward Surge Current

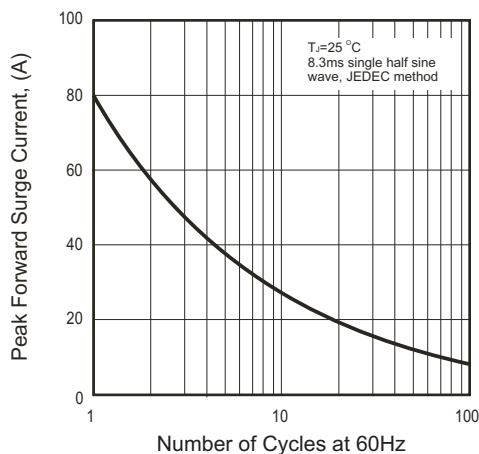


Fig.4 - Junction Capacitance

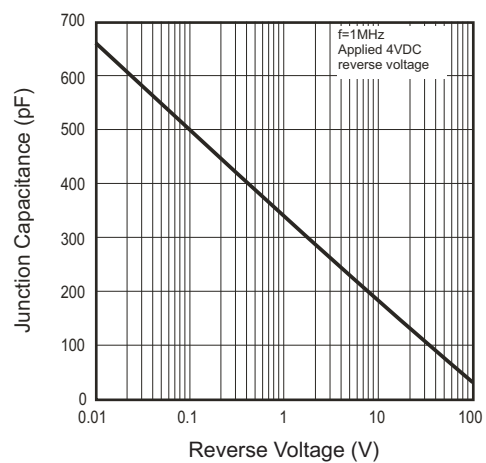
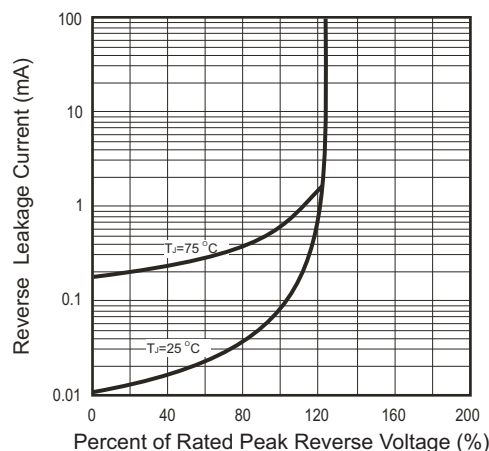
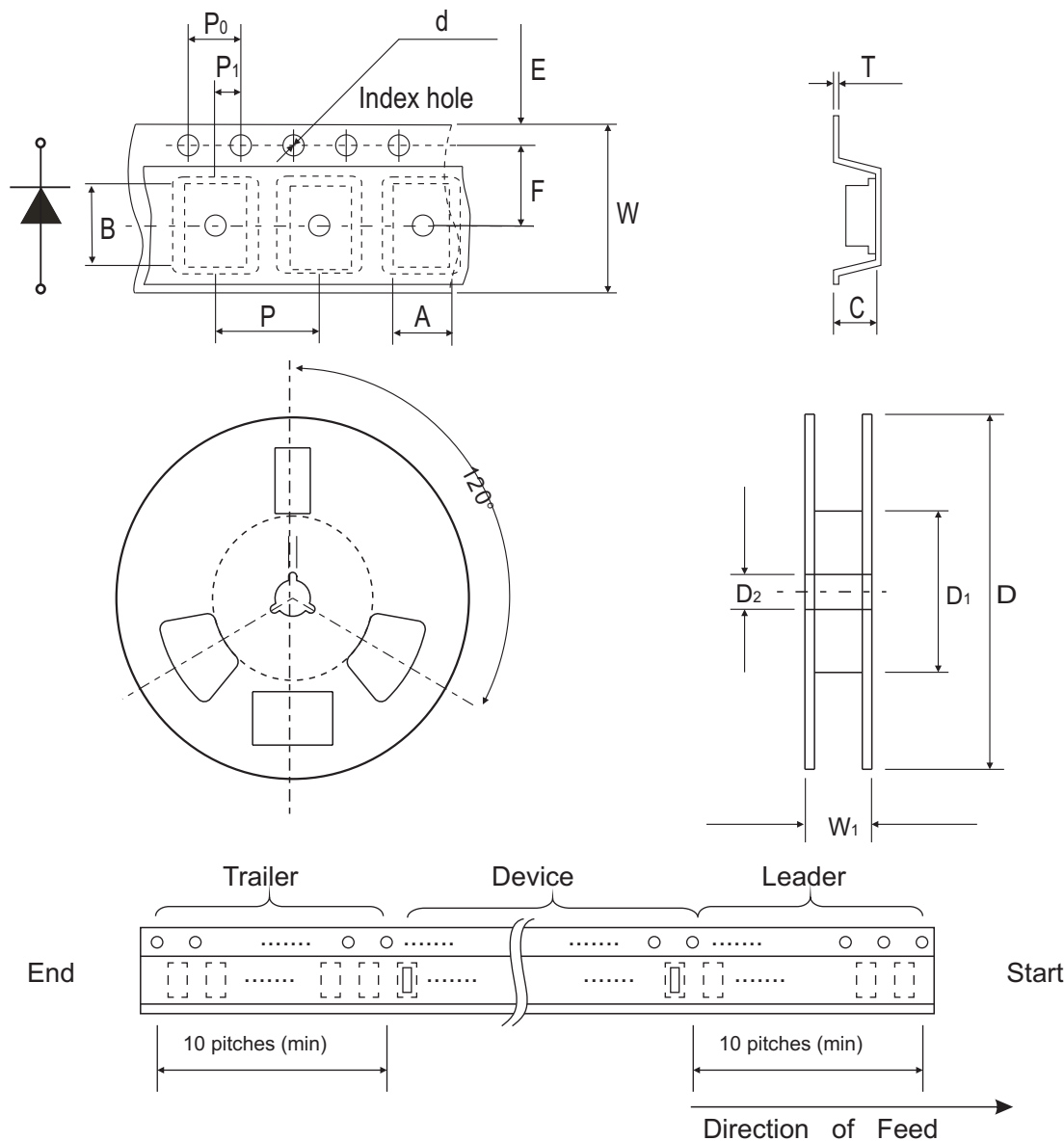


Fig.5 - Reverse Characteristics



Reel Taping Specification



Mini-SMA/SOD-123T	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	1.90 ± 0.10	3.90 ± 0.10	1.68 ± 0.10	1.50 ± 0.10	178 ± 2.00	62.0 MIN.	13.0 ± 0.50
	(inch)	0.075 ± 0.04	0.153 ± 0.04	0.066 ± 0.04	0.059 ± 0.004	7.00 ± 0.079	2.440 MIN.	0.512 ± 0.020

Mini-SMA/SOD-123T	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.23 ± 0.10	8.00 ± 0.30	11.40 ± 1.0
	(inch)	0.689 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.004	0.315 ± 0.012	0.449 ± 0.039

Marking Code

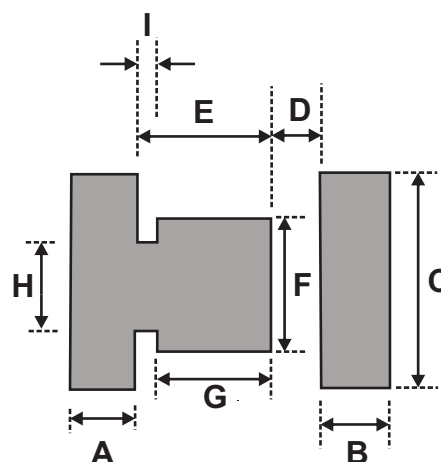
Part Number	Marking Code
CDBW320-G	32
CDBW330-G	33
CDBW340-G	34
CDBW350-G	35
CDBW360-G	36
CDBW380-G	38
CDBW3100-G	310



XX / XXX = Product type marking code

Suggested PAD Layout

SIZE	Mini-SMA/SOD-123T	
	(mm)	(inch)
A	1.00	0.040
B	1.00	0.040
C	1.70	0.067
D	0.50	0.020
E	1.50	0.060
F	1.10	0.044
G	0.90	0.036
H	0.85	0.034
I	0.60	0.024



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
Mini-SMA/SOD-123T	2500	7