

CDBV340-HF

Forward current: 3.0A

Reverse voltage: 40V

RoHS Device

Halogen Free



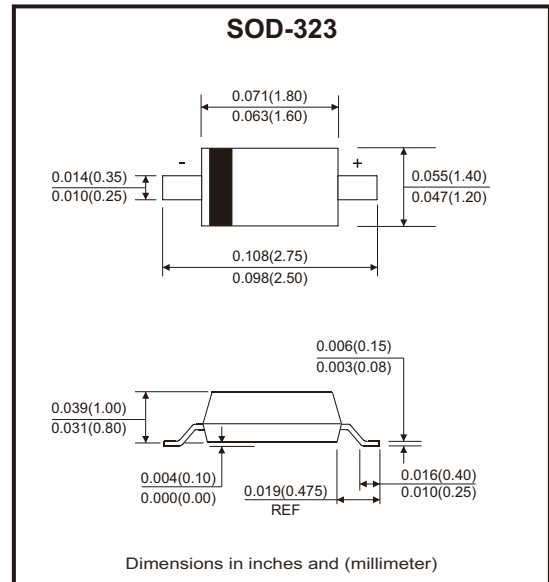
Features

- Low forward voltage drop.
- Very small SMD package.

Mechanical Data

- Case: SOD-323, molded plastic.
- Polarity: Indicated by cathode end.

Circuit Diagram



Maximum Ratings (At Ta=25°C, unless otherwise noted)

Parameter	Symbol	CDBV340-HF	Unit
Peak repetitive reverse voltage	V_{RRM}	40	V
Working peak reverse voltage	V_{RWM}		
RMS reverse voltage	$V_{R(RMS)}$	28	V
Forward current	I_F	3	A
Non-repetitive peak forward surge current @ t = 1us	I_{FSM}	25	A
Thermal resistance (junction to ambient)	$R_{\theta JA}$	250	°C/W
	$R_{\theta JC}$	150	
Operating junction temperature range	T_J	-55 ~ +125	°C
Storage temperature range	T_{STG}	-55 ~ +150	°C

Electrical Characteristics (At Ta=25°C, unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Max.	Unit
Reverse breakdown voltage	$I_R = 1mA$	$V_{(BR)}$	40		V
Reverse current	$V_R = 40V$	I_R		1	mA
Forward voltage (Note 1)	$I_F = 2A$	V_F		0.55	V
	$I_F = 3A$			0.62	
Diode capacitance	$V_R = 20V, f = 1MHz$	C_D		40	pF

Rating and Characteristic Curves (CDBV340-HF)

Fig.1 - Forward Current Derating Curve

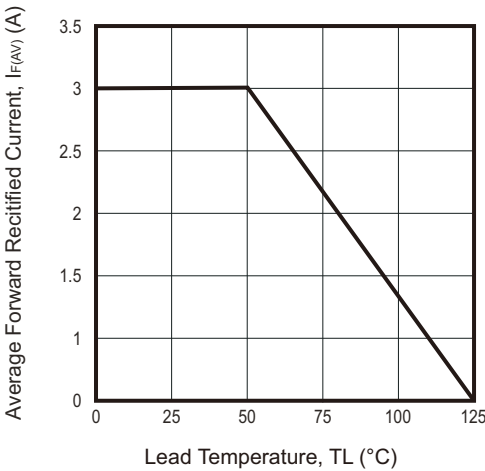


Fig.2 - Capacitance Characteristics

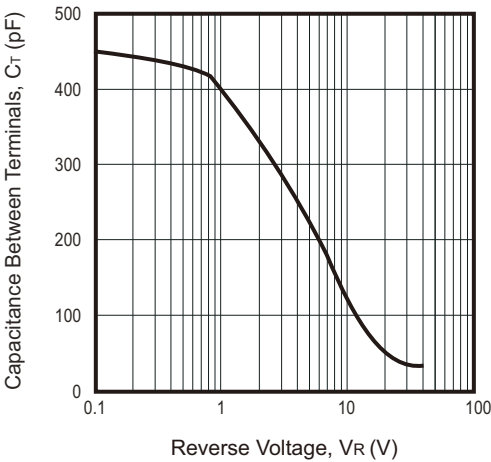


Fig.3 - Forward Characteristics

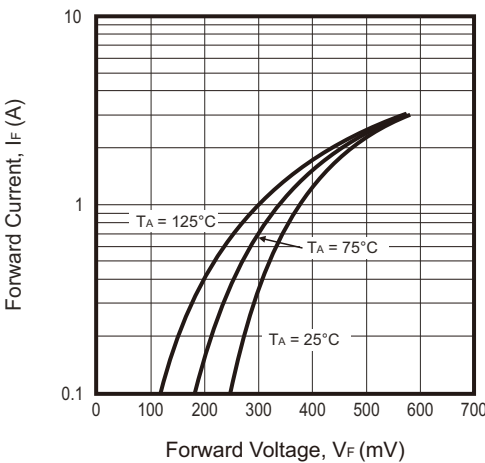
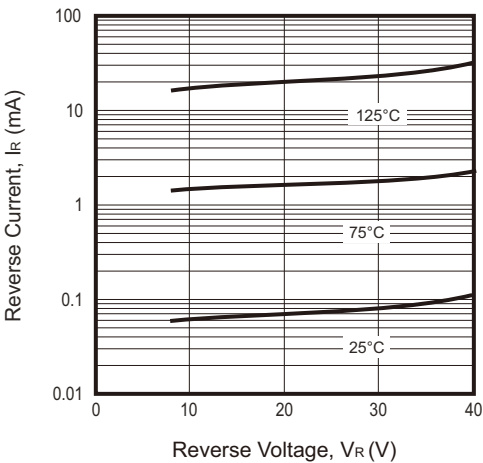
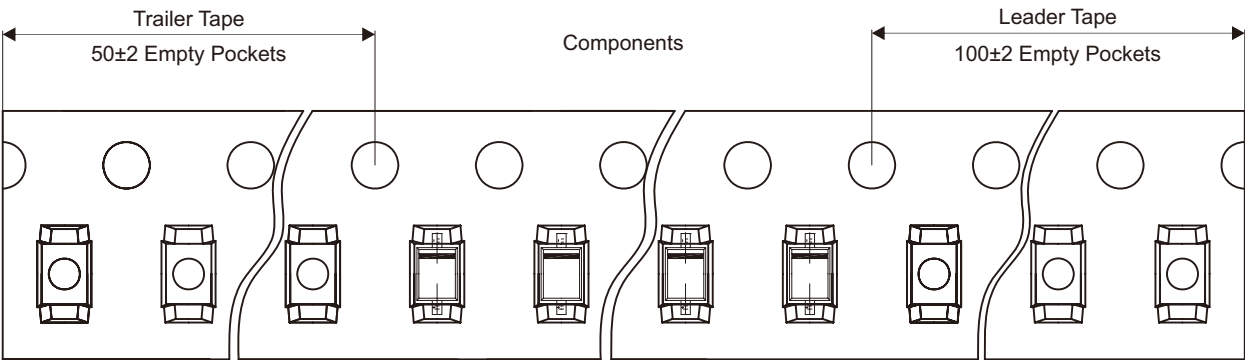
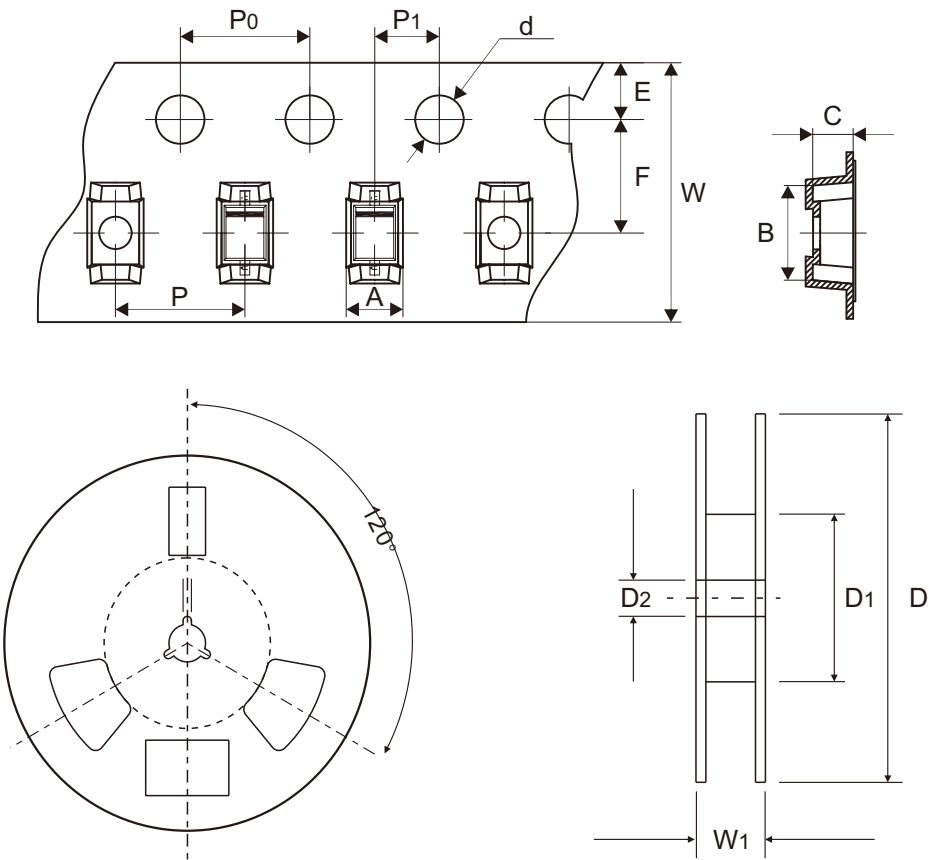


Fig.4 - Reverse Characteristics



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	178.00 ± 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 + 0.30 - 0.10	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 + 0.012 - 0.004	0.484 ± 0.039

Marking Code

Part Number	Marking Code
CDBV340-HF	SH

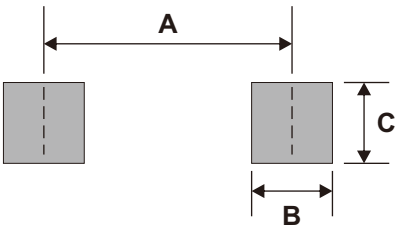


■ = Cathode band
Solid dot = Halogen Free

Suggested P.C.B. PAD Layout

SIZE	SOD-323	
	(mm)	(inch)
A	2.20	0.087
B	0.80	0.031
C	0.80	0.031

Note: 1.The pad layout is for reference purposes only.



Standard Packaging

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