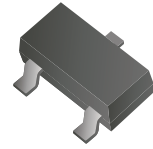


## CDBV3-00340S/C/A-G

Reverse Voltage: 40 Volts

Forward Current: 30 mA

RoHS Device



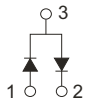
### Features

- Design for mounting on small surface.
- High speed switching application, circuit protection.
- Low turn-on voltage.

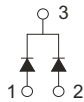
### Mechanical data

- Case: SOT-323, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Weight: 0.006 grams(approx.)

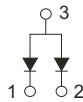
### Circuit diagram



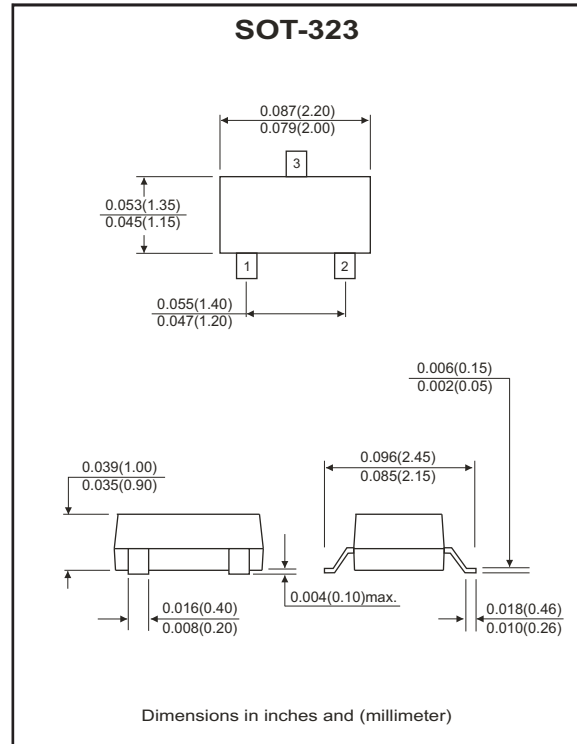
CDBV3-00340S-G



CDBV3-00340C-G



CDBV3-00340A-G



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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak reverse voltage	$V_{RRM}$				40	V
DC reverse voltage	$V_R$				40	V
Average forward current	$I_o$				30	mA
Non-repetitive peak forward surge current	$I_{FSM}$	@t=8.3ms half sine-wave superimposed on rate load (JEDEC method)			200	mA
Power dissipation	$P_D$				200	mW
Thermal resistance	$R_{\theta JA}$	Junction to Ambient			500	°C/W
Junction Temperature range	$T_J$		-40		+125	°C
Storage temperature range	$T_{STG}$		-55		+150	°C

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	$V_F$	$I_F=1mA$			0.37	V
Reverse current	$I_R$	$V_R=10V$			1	μA
Capacitance between terminals	$C_J$	f=1MHz, $V_R=1V$		2		pF

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

REV:B

## RATING AND CHARACTERISTIC CURVES (CDBV3-00340S/C/A-HF)

Fig.1 - Forward Characteristics

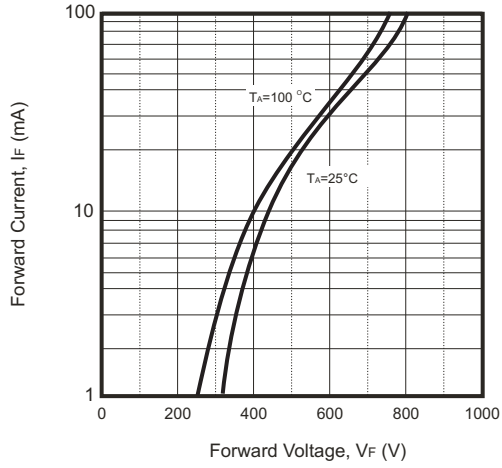


Fig.2 - Reverse Characteristics

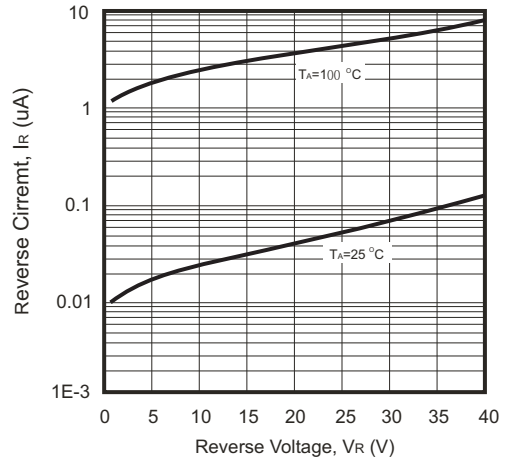


Fig.3 - Capacitance Characteristics

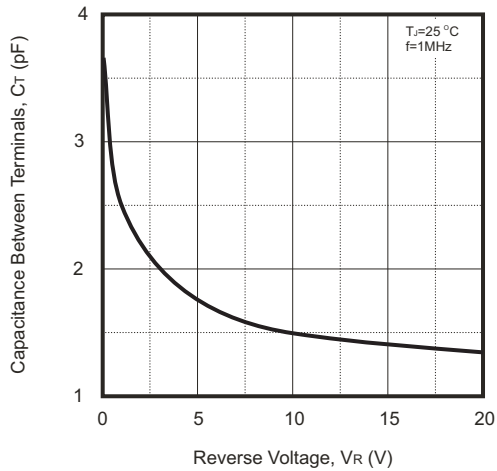
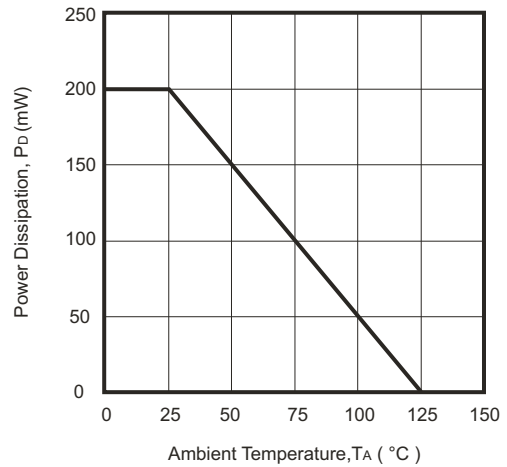
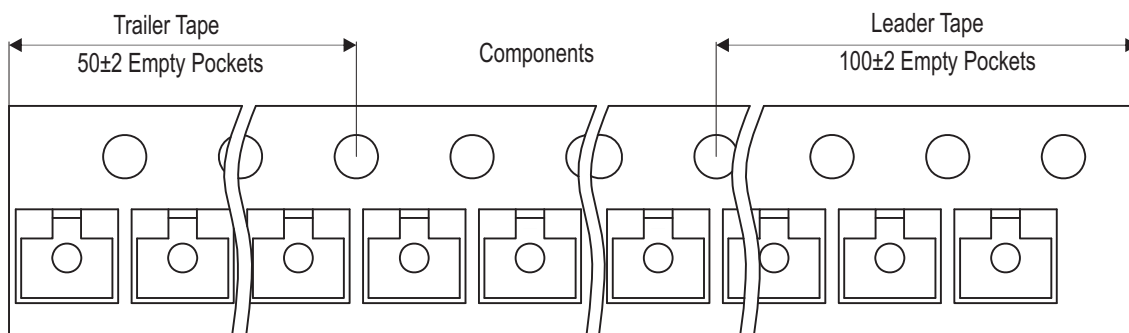
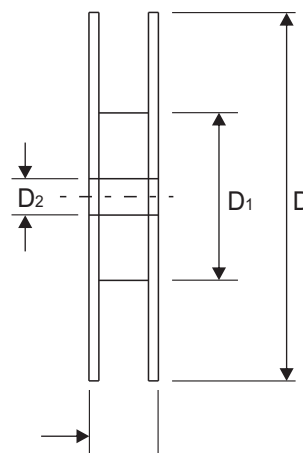
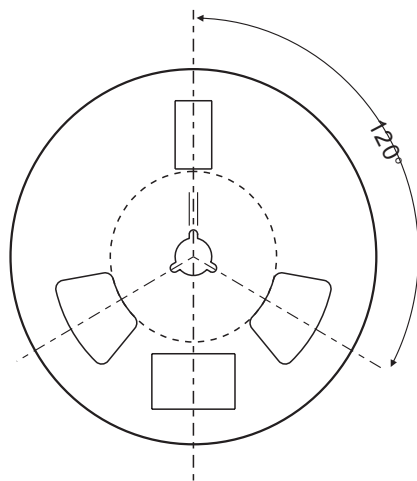
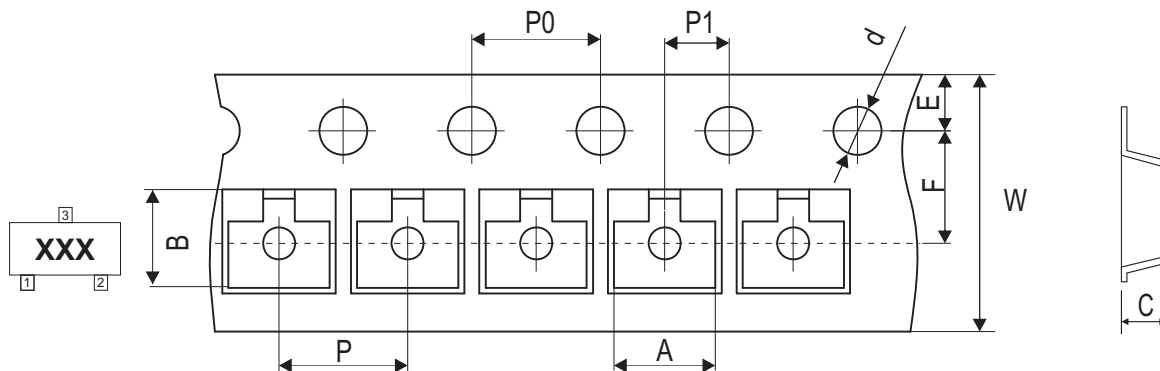


Fig.4 - Power Derating Curve



## Reel Taping Specification



SOT-323	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.25 ± 0.05	2.55 ± 0.05	1.19 ± 0.05	1.55 ± 0.10	178.00 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.089 ± 0.002	0.100 ± 0.002	0.047 ± 0.002	0.061 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

SOT-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