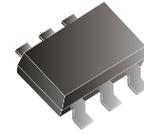


## CDBV6-00340TI-G

**Forward Current: 30mA**  
**Reverse Voltage: 40V**  
**RoHS Device**

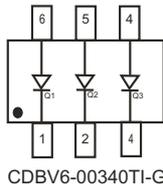
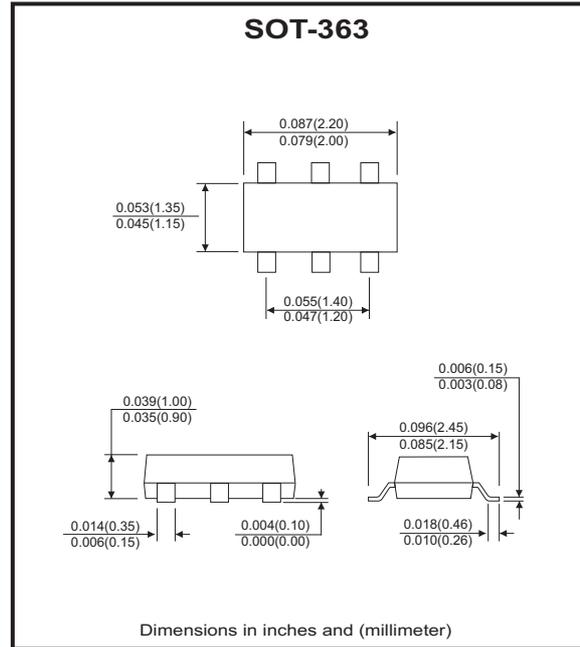


### Features

- Low forward voltage drop.
- Fast switching.
- Ultra-small surface mount package.
- PN junction guard ring for transient and ESD protection.
- Available in lead Free version.

### Mechanical data

- Case: SOT-363, Molded Plastic
- Case material: UL 94V-0 flammability retardant classification.
- Terminals: Solderable per MIL-STD-202, Method 208
- Marking: Orientation: See diagrams below
- Weight: 0.006 grams (approx.)
- Marking: 731



\*Symmetrical configuration, no orientation indicator.

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

Parameter	Symbol	Limits	Unit
Peak repetitive reverse voltage	$V_{RM}$	40	V
DC blocking voltage	$V_R$	40	V
Forward continuous current	$I_F$	30	mA
Forward surge current (Note 1) @t<1.0s	$I_{FSM}$	200	mA
Operation and storage temperature range	$T_J$	125	°C
Operation and storage temperature range	$T_{STG}$	-40 ~ +125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=1mA$	$V_F$			0.37	V
Reverse leakage current	$V_R=10V$	$I_R$			1	μA
Total capacitance	$V_R=1.0V, f=1.0MHz$	$C_T$		2		pF

Notes1 : 60HZ \* 1 Cyc.

## ELECTRICAL CHARACTERISTIC CURVES (CDBV6-00340TI-G)

Fig.1 Forward Characteristics

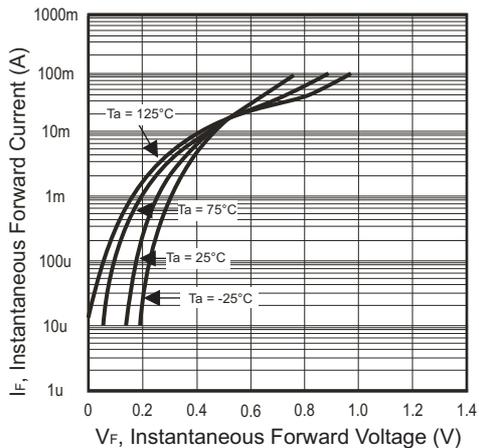


Fig.2 Reverse Characteristics

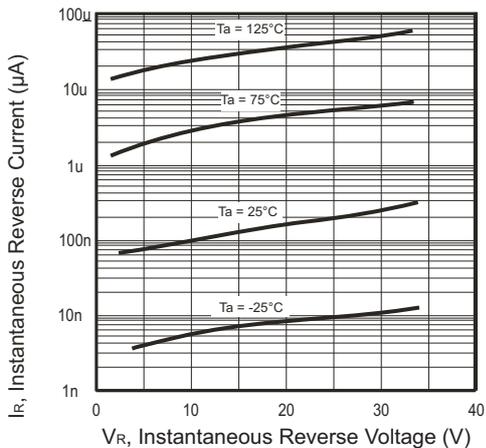
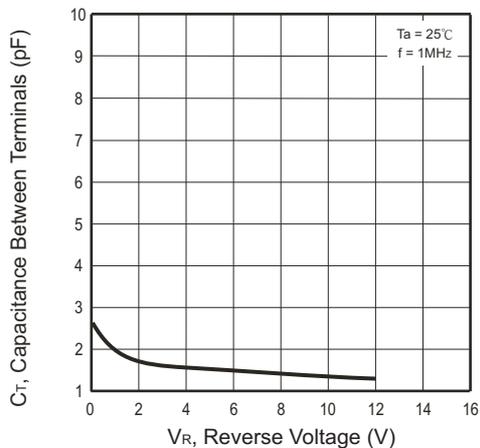
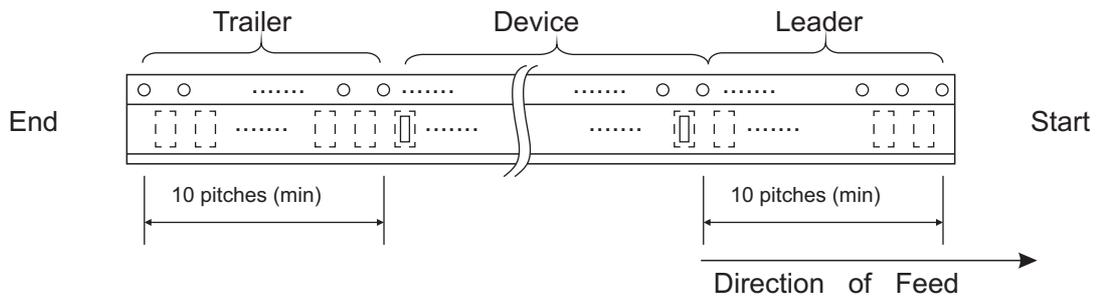
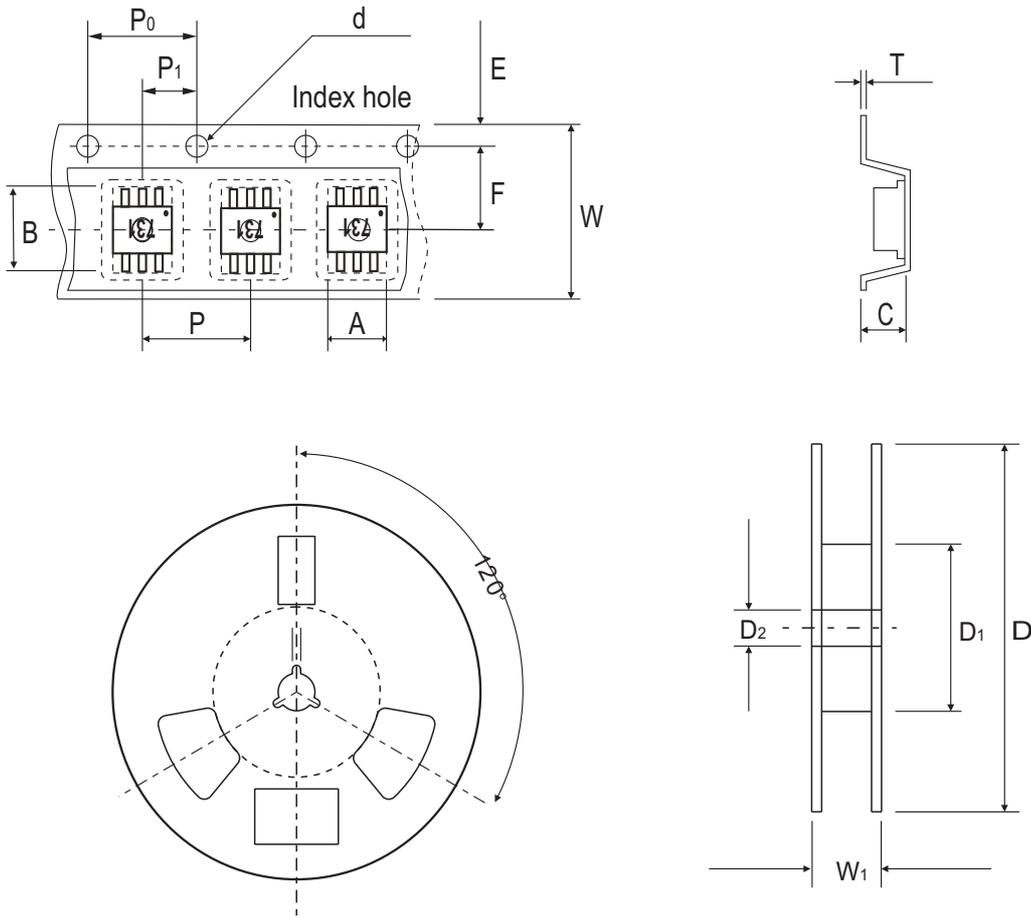


Fig.3 Capacitance Between Terminals Characteristics



## Reel Taping Specification

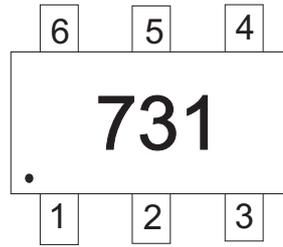


SOT-363	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	2.25 ± 0.05	2.55 ± 0.05	1.20 ± 0.05	1.50 ± 0.10	178 ± 2	50.40 ± 1.00	13.00 ± 1.00
	(inch)	0.089 ± 0.002	0.100 ± 0.002	0.047 ± 0.002	0.059 ± 0.004	7.008 ± 0.079	0.059 ± 0.004	0.512 ± 0.039

SOT-363	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 ± 1.0
	(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

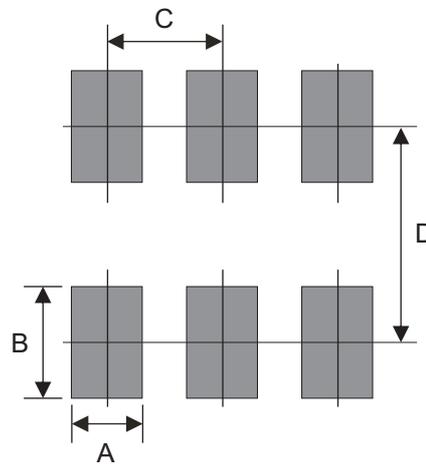
## Marking Code

Part Number	Marking Code
CDBV6-00340TI-G	731



## Suggested PAD Layout

SIZE	SOT-363	
	(mm)	(inch)
A	0.40	0.016
B	0.80	0.031
C	0.65	0.026
D	1.94	0.076



## Standard Packaging

Case Type	REEL PACK	
	REEL ( pcs )	Reel Size (inch)
SOT-363	3,000	7