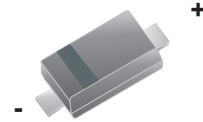


## CDBP00340

$I_o=30\text{mA}$

$V_R=40\text{V}$

RoHS Device

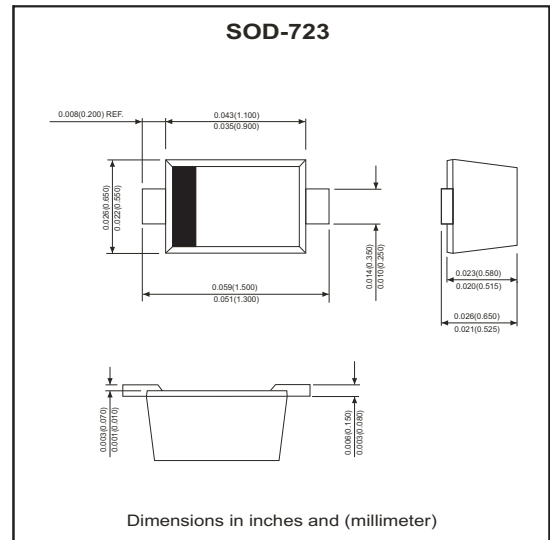


### Features

- Small surface mounting type.
- Low reverse current and low forward voltage.
- High reliability.

### Mechanical Data

- Case: Molded plastic SOD-723
- Terminals: Solderable per MIL-STD-750, Method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.



### Circuit diagram



### Maximum Ratings (at $T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	$V_{RM}$	40	V
DC reverse voltage	$V_R$	30	V
Mean rectifying current	$I_o$	30	mA
Peak forward surge current	$I_{FSM}$	200	mA
Power dissipation	$P_D$	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	667	$^\circ\text{C}/\text{W}$
Junction temperature	$T_J$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 ~ +150	$^\circ\text{C}$

### Electrical Characteristics (at $T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=1\text{mA}$	$V_F$			0.37	V
Reverse current	$V_R=30\text{V}$	$I_R$			0.50	$\mu\text{A}$
Capacitance between terminals	$V_R=1\text{V}$ , $f=1\text{MHz}$	$C_T$		2		pF

## ELECTRICAL CHARACTERISTIC CURVES (CDBP00340)

Fig.1 - Forward characteristics

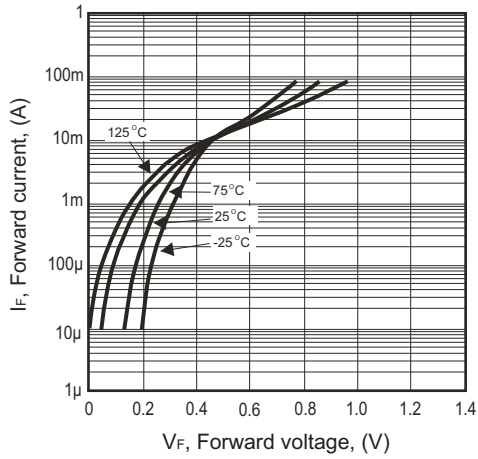


Fig.2 - Reverse characteristics

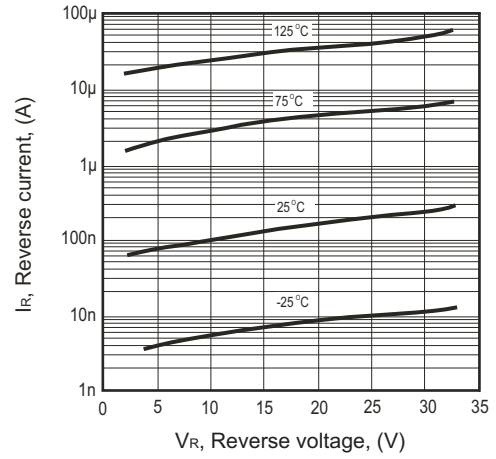
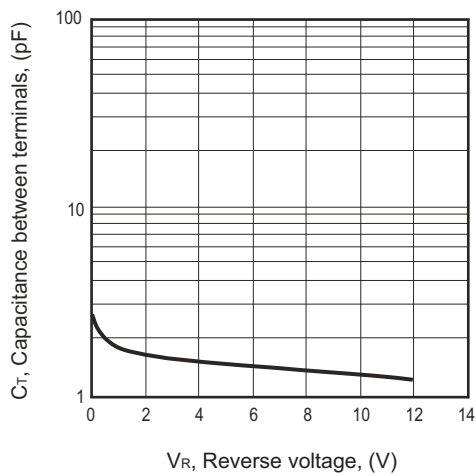
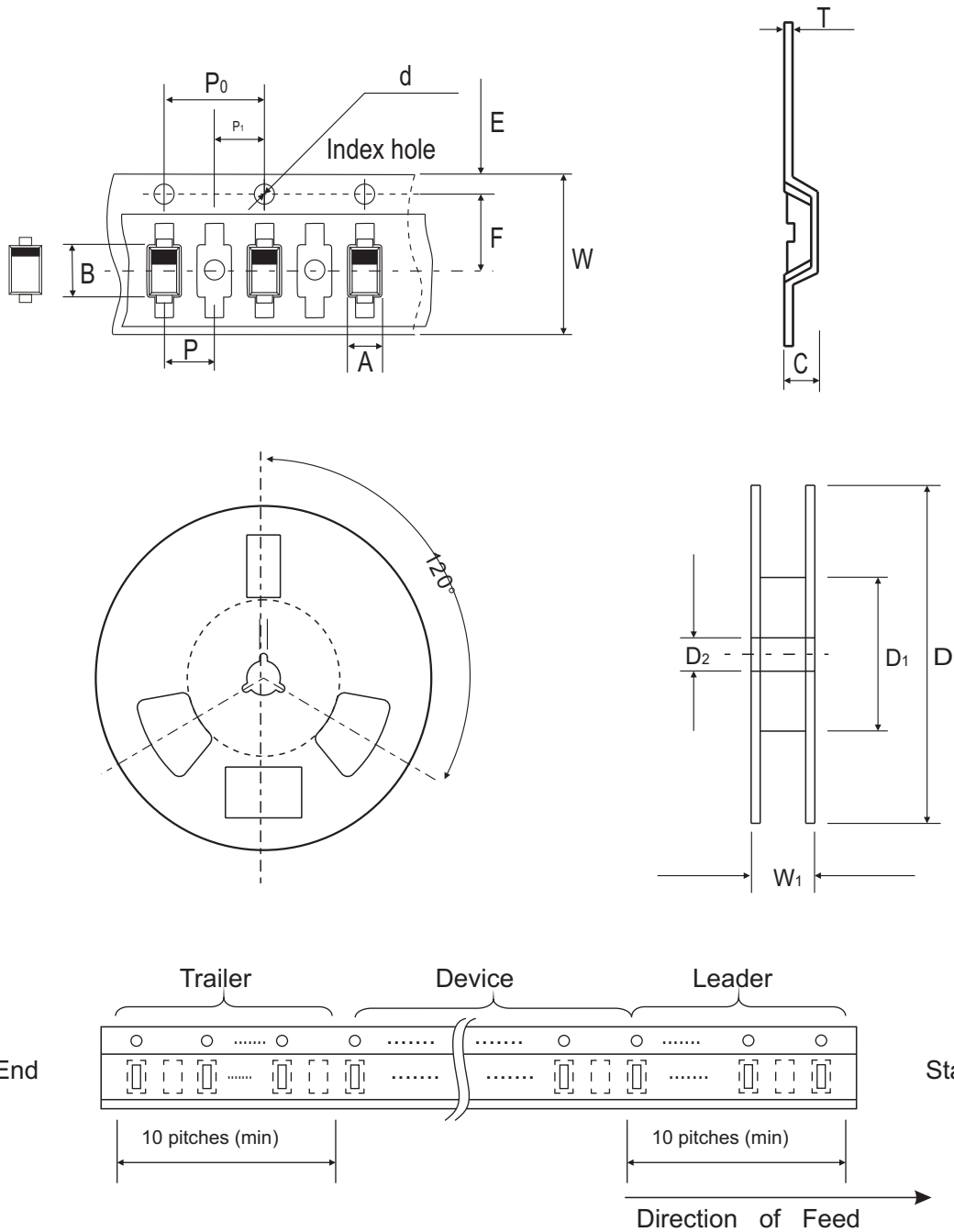


Fig.3 - Capacitance between terminals



## Reel Taping Specification



SOD-723	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	0.70 ± 0.05	1.71 ± 0.05	0.68 ± 0.05	1.50 ± 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.028 ± 0.002	0.067 ± 0.002	0.027 ± 0.002	0.059 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

SOD-723	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	0.158 ± 0.004	0.158 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.484 ± 0.039

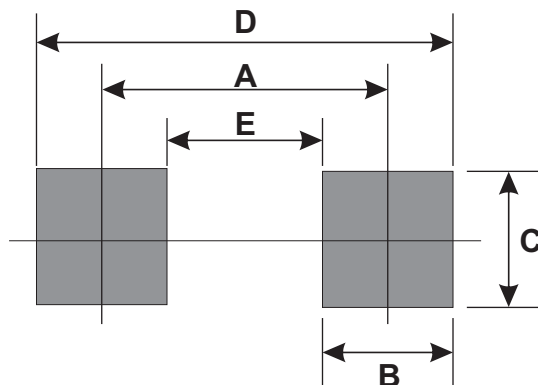
## Marking Code

Part Number	Marking Code
CDBP00340	5



## Suggested PAD Layout

SIZE	SOD-723	
	(mm)	(inch)
A	1.26	0.050
B	0.60	0.024
C	0.70	0.028
D	1.86	0.073
E	0.66	0.026



## Standard Packaging

Case Type	REEL PACK	
	REEL ( pcs )	Reel Size (inch)
SOD-723	8,000	7

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