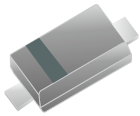
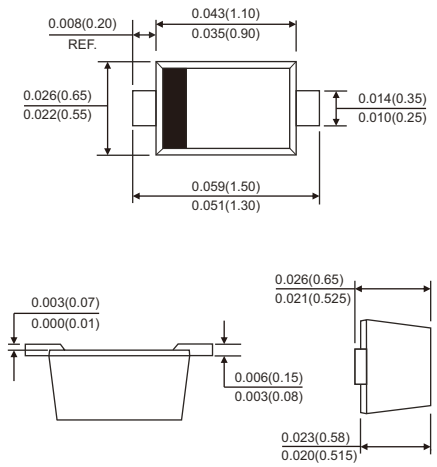
SMD Schottky Barrier Diode

CDBP00340-HF

IO = 30mA
VR = 40V
RoHS Device
Halogen Free



SOD-723



Dimensions in inches and (millimeter)

Features

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

Mechanical data

- Case: Molded plastic SOD-723.
- Polarity: Indicated by cathode band.
- Mounting position: Any

Circuit Diagram



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

Parameter	Symbol	Value	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	30	V
Mean rectifying current	I_O	30	mA
Non-repetitive peak forward surge current @ t=8.3ms	I_{FSM}	200	mA
Power dissipation	P_D	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	667	°C/W
Junction temperature	T_J	125	°C
Storage temperature range	T_{STG}	-55 ~ +150	°C

Electrical Characteristics (at T_A=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=30V			0.5	μA
Capacitance between terminals	C_T	V_R=1V, f=1MHz		2		pF

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Rating and Characteristic Curves (CDBP00340-HF)

Fig.1 - Forward Characteristics

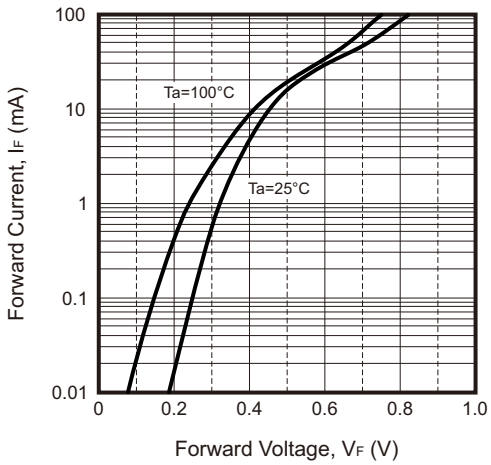


Fig.2 - Reverse Characteristics

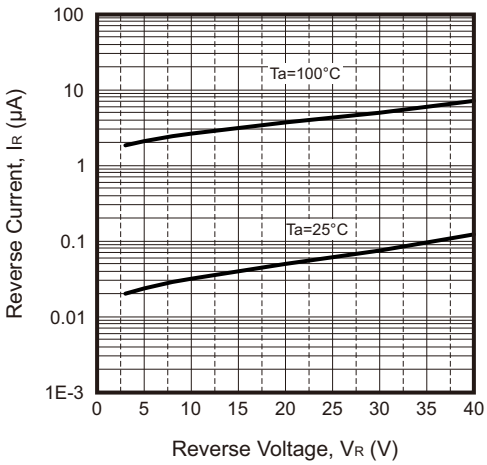


Fig.3 - Capacitance Characteristics

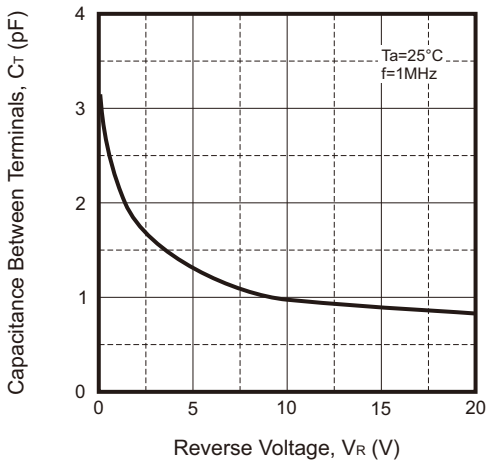
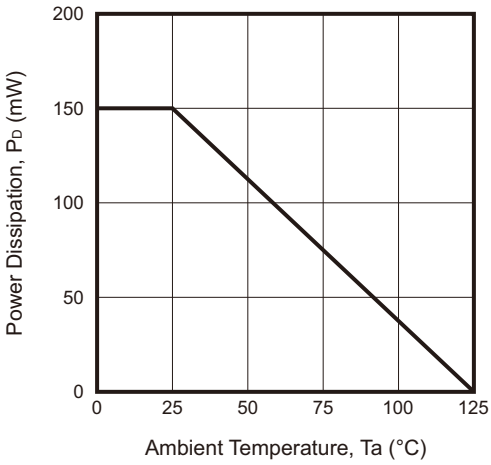
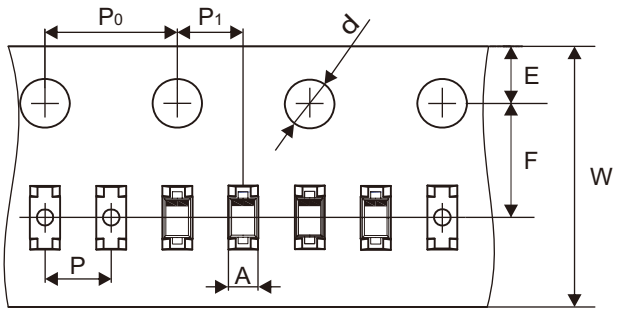


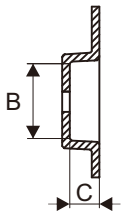
Fig.4 - Power Derating Curve

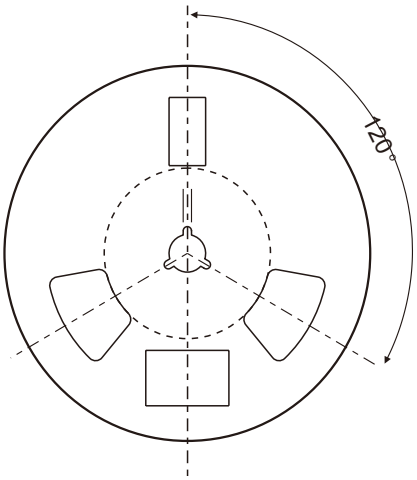


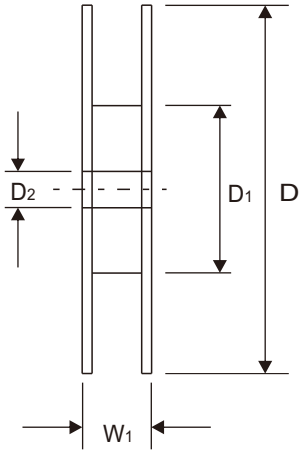
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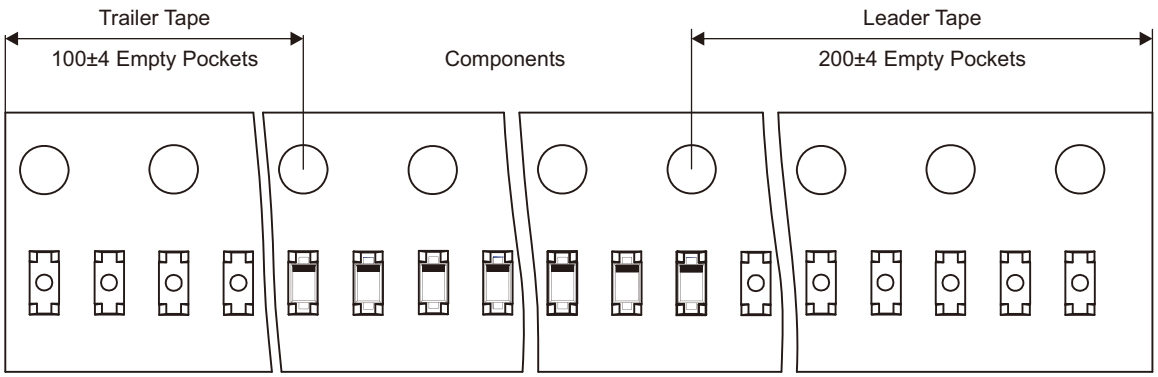
Reel Taping Specification











	SYMBOL	A	B	C	d	D	D1	D2
SOD-723	(mm)	0.73 Typ	1.71 Typ	0.62 Typ	1.50 Typ	178.00 Typ	54.40 Typ	13.00 Typ
	(inch)	0.029 Typ	0.067 Typ	0.024 Typ	0.059 Typ	7.008 Typ	2.142 Typ	0.512 Typ

	SYMBOL	E	F	P	P0	P1	W	W1
SOD-723	(mm)	1.75 Typ	3.50 Typ	2.00 Typ	4.00 Typ	2.00 Typ	8.00 Typ	12.30 Typ
	(inch)	0.069 Typ	0.138 Typ	0.079 Typ	0.157 Typ	0.079 Typ	0.315 Typ	0.484 Typ

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Marking Code

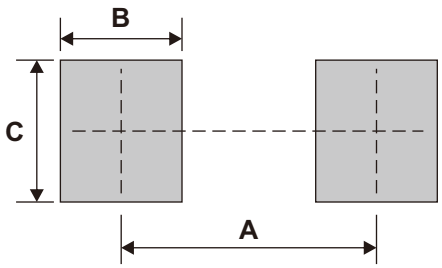
Part Number	Marking Code
CDBP00340-HF	5



▌= Cathode band

Suggested PAD Layout

SIZE	SOD-723	
	(mm)	(inch)
A	1.26	0.050
B	0.60	0.024
C	0.70	0.028



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

Standard Packaging

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

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