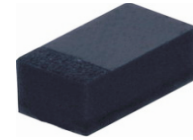


CDBFR03100-HF

$I_o = 300 \text{ mA}$
 $V_R = 100 \text{ Volts}$
RoHS Device
Halogen Free



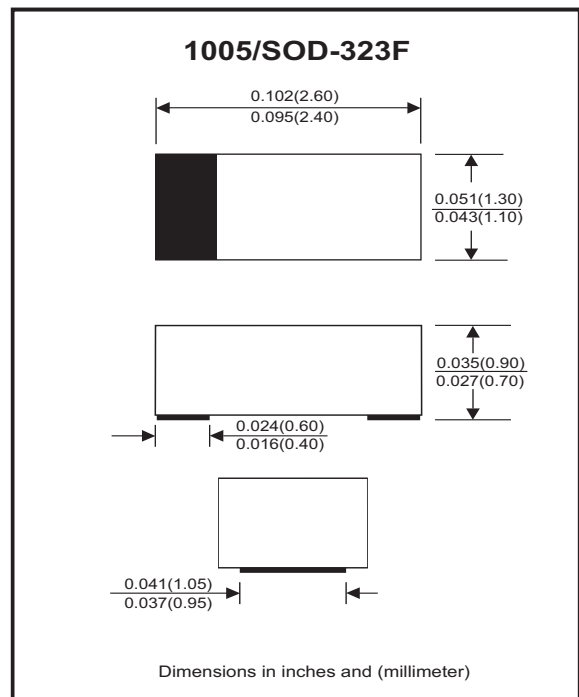
Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Low drop-down voltage.
- Majority carrier conduction.

Mechanical data

- Case: 1005/SOD-323F standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026
- Polarity: Indicated by cathode band.
- Mounting position: Any
- Weight: 0.006 grams(approx.).

Circuit Diagram



Maximum Rating (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Value	Unit
Max. Repetitive peak reverse voltage		V_{RRM}	100	V
Max. RMS voltage		V_{RMS}	70	V
Max. Reverse voltage		V_R	100	V
Max. Average forward current		I_o	300	mA
Max. Forward surge current	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	3	A
Power dissipation		P_D	200	mW
Junction temperature range		T_j	-40 to +150	$^\circ\text{C}$
Storage temperature range		T_{STG}	-55 to +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	$I_F = 300\text{mA}$	V_F		0.75	0.82	V
Reverse current	$V_R = 100\text{V}$	I_R			50	μA
Capacitance between terminals	$f = 1\text{MHz}, V_R = 1\text{V}$	C_T		25		pF

Notes: Pulse test with $PW=300\mu\text{sec}$, 1% duty cycle

RATING AND CHARACTERISTIC CURVES (CDBFR03100-HF)

Fig.1 - Typical Forward Characteristics

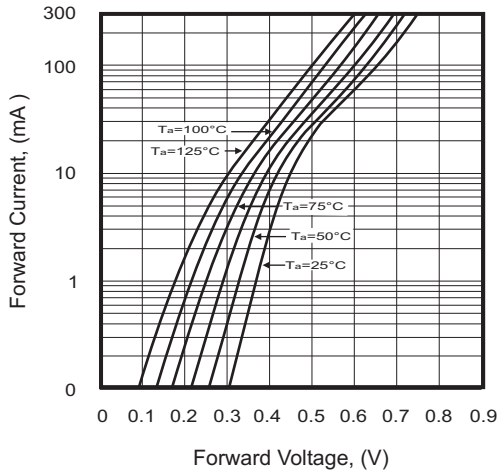


Fig.2 - Typical Reverse Characteristics

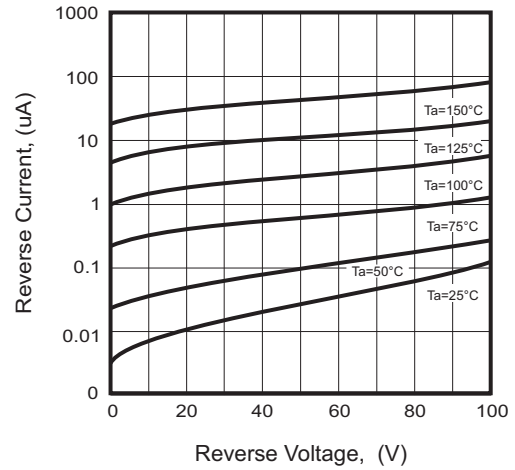


Fig.3 - Typical Capacitance Between Terminals Characteristics

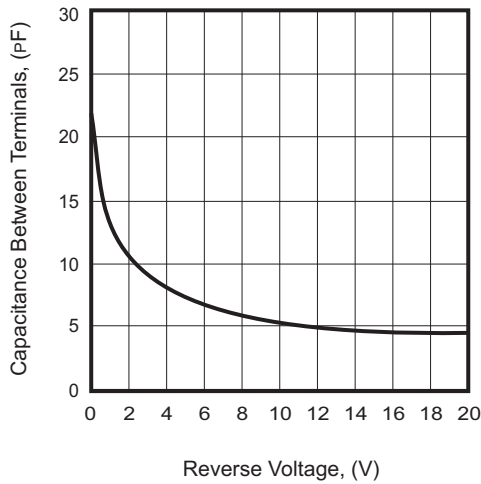
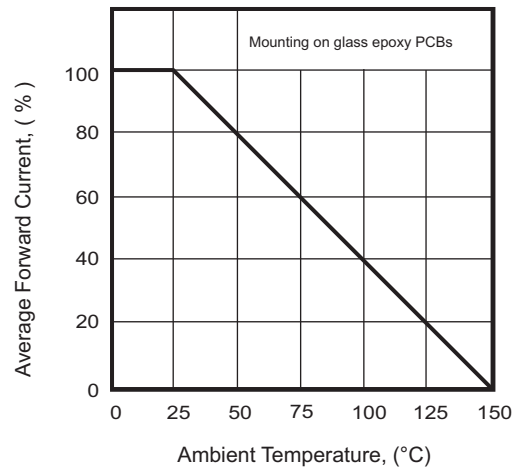
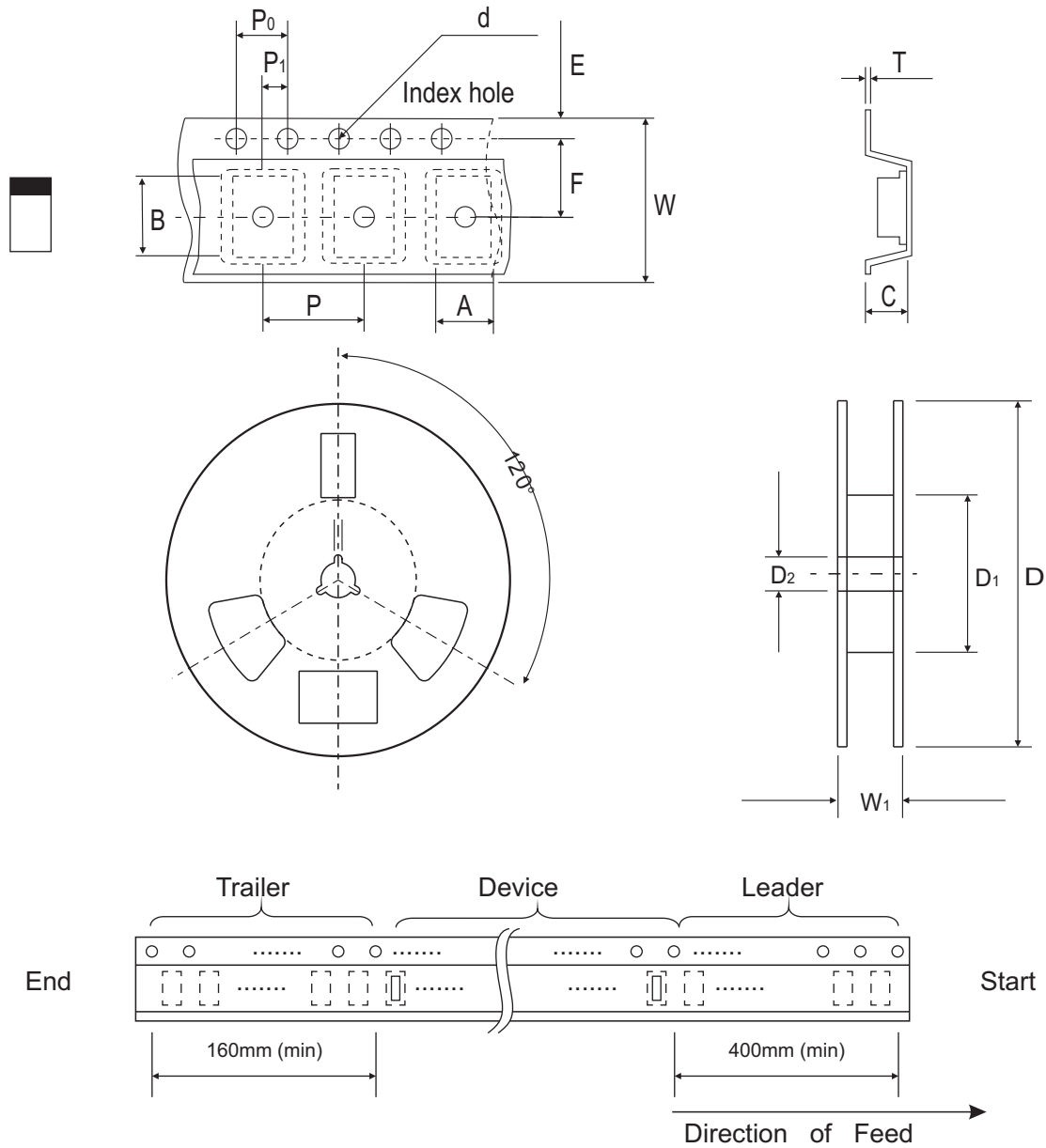


Fig.4 - Current Derating Curve



Reel Taping Specification



1005 / SOD-323F	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.45 ± 0.05	2.80 ± 0.05	1.00 ± 0.05	1.50 + 0.10 - 0	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.057 ± 0.002	0.110 ± 0.002	0.039 ± 0.002	0.059 + 0.004 - 0	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

1005 / SOD-323F	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.23 ± 0.05	8.00 ± 0.10	12.00 + 0.50 - 0
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.002	0.315 ± 0.004	0.472 + 0.020 - 0

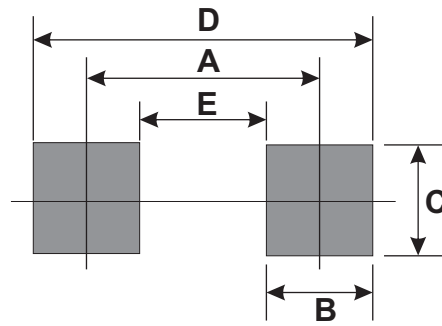
Marking Code

Part Number	Marking Code
CDBFR03100-HF	BS



Suggested PAD Layout

SIZE	1005/SOD-323F	
	(mm)	(inch)
A	2.00	0.079
B	0.70	0.028
C	1.30	0.051
D	2.70	0.106
E	1.30	0.051



Standard Packaging

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
1005/SOD-323F	4,000	7

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