SMD Schottky Barrier Diode

CDBF0130R-HF

Io = 100 mA
VR = 30 Volts
RoHS Device
Halogen Free

Features

-Low reverse current.

-Designed for mounting on small surface.

-Extremely thin / leadless package.

-Majority carrier conduction.

Mechanical data

-Case: 1005/SOD-323F standard package, molded plastic.

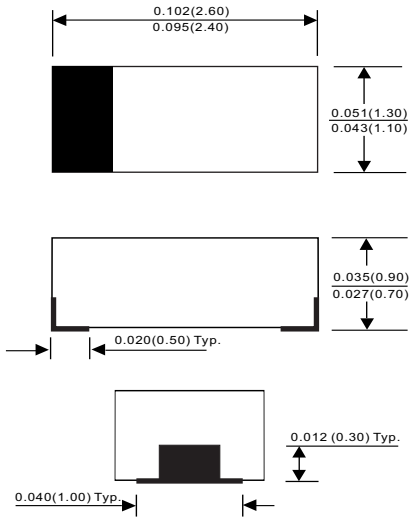
-Terminals: Gold plated, solderable per MIL-STD-750,method 2026.

-Marking code: cathode band & BQ

-Mounting position: Any

-Weight: 0.006 gram(approx.).

1005/SOD-323F



Dimensions in inches and (millimeter)

Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		VRRM			35	V
Reverse voltage		VR			30	V
Average forward current		IO			100	mA
Forward current,surge peak	8.3ms single half sine-wave superimposed on rate load(JEDEC method)	IFSM			1	A
Storage temperature		TSTG	-40		+125	°C
Junction temperature		Tj			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	IF = 10 mA	VF			0.45	V
Reverse current	VR = 10 V	IR			0.5	uA

RATING AND CHARACTERISTIC CURVES (CDBF0130R-HF)

Fig. 1 - Forward characteristics

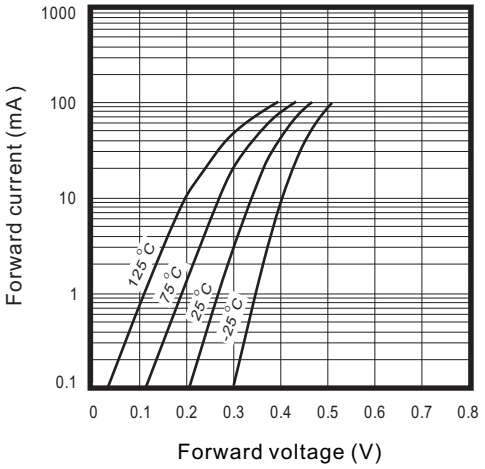


Fig. 2 - Reverse characteristics

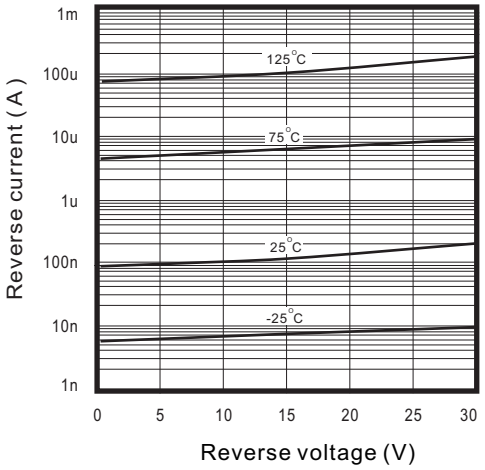


Fig. 3 - Capacitance between terminals characteristics

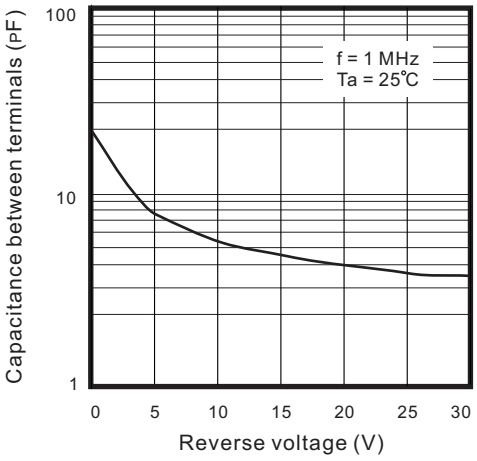


Fig.4 - Current derating curve

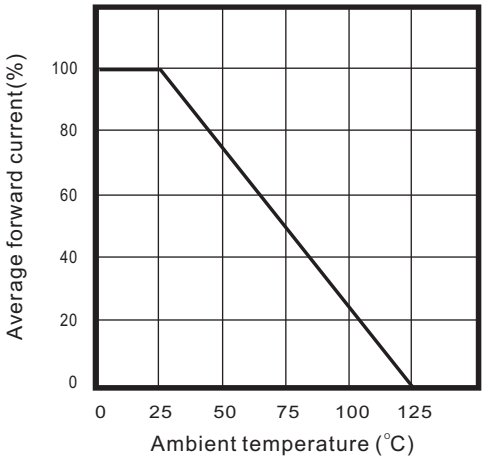


Fig. 5 - VF Dispersion map

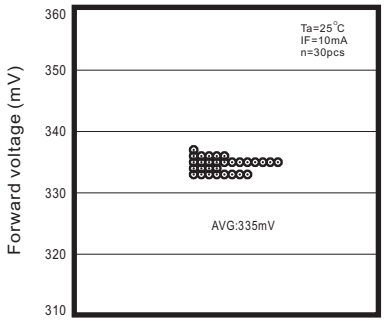


Fig. 6 - IR Dispersion map

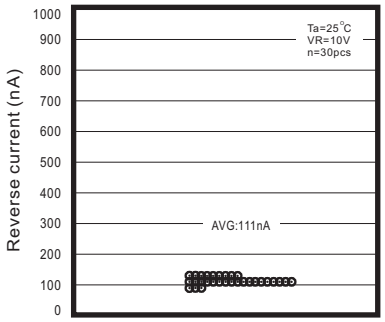
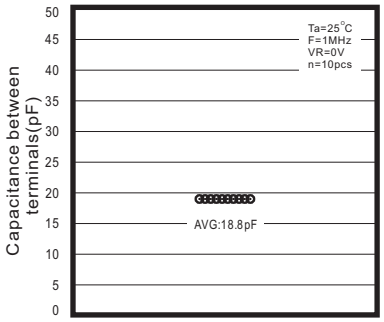
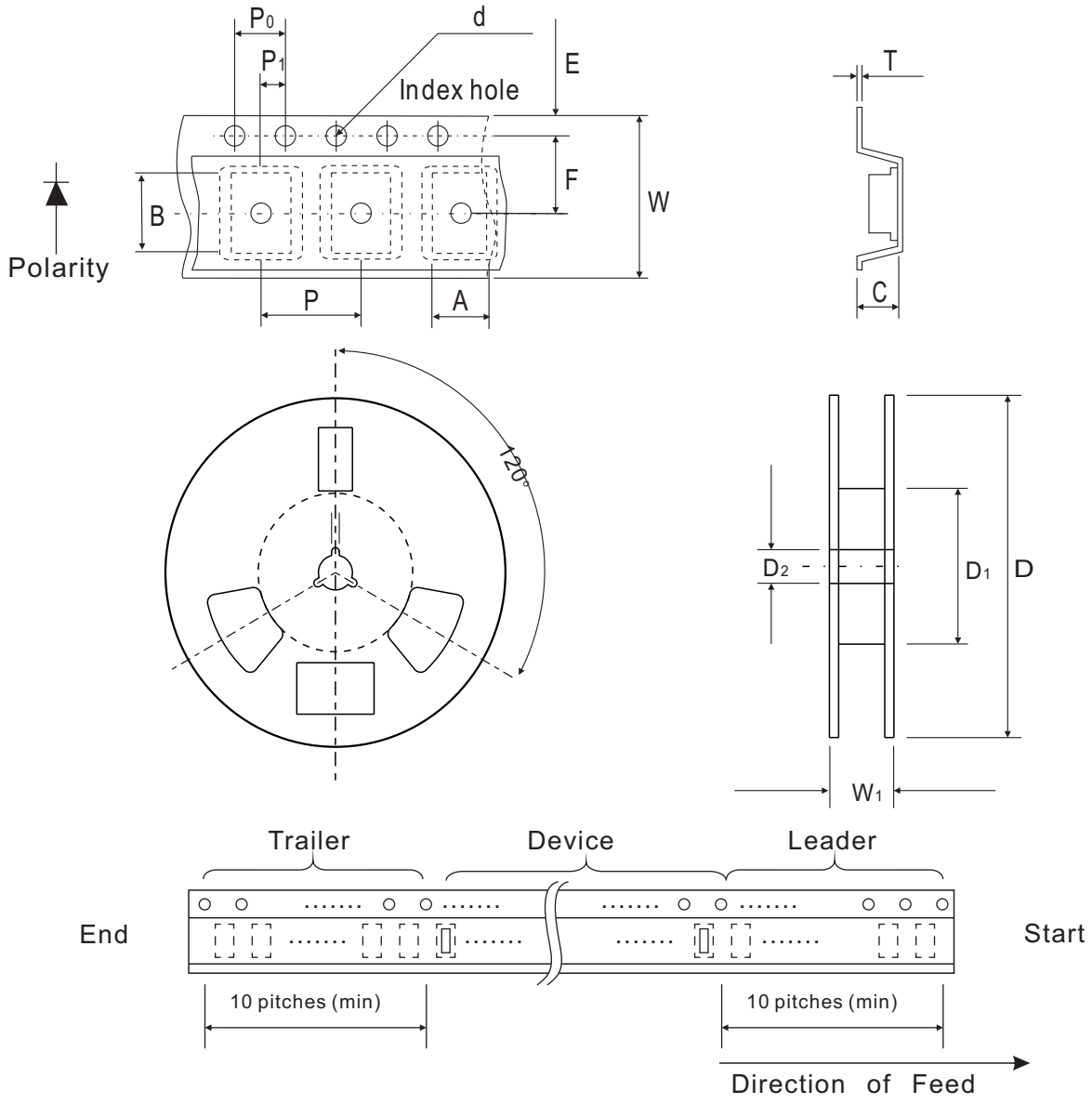


Fig. 7 - CT Dispersion map



Reel Taping Specification



	SYMBOL	A	B	C	d	D	D_1	D_2
1005 (SOD-323F)	(mm)	1.55 ± 0.10	2.65 ± 0.10	1.05 ± 0.10	1.55 ± 0.05	178 ± 1	60.0 MIN.	13.0 ± 0.20
	(inch)	0.061 ± 0.004	0.104 ± 0.004	0.041± 0.004	0.061 ± 0.002	7.008 ± 0.04	2.362 MIN.	0.512 ± 0.008

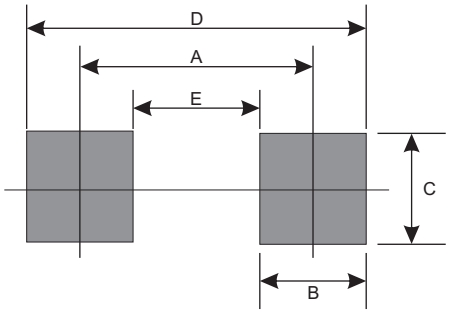
	SYMBOL	E	F	P	P_0	P_1	T	W	W_1
1005 (SOD-323F)	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.23 ± 0.05	8.00 ± 0.20	13.5 MAX.
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.002	0.315 ± 0.008	0.531 MAX.

Marking Code

Park Number	Marking Code
CDBF0130R-HF	BQ

Suggested PAD Layout

SIZE	1005/SOD-323F	
	(mm)	(inch)
A	2.10	0.083
B	1.20	0.047
C	1.20	0.047
D	3.30	0.130
E	0.90	0.035



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
1005/SOD-323F	4000	7

Mouser Electronics

Authorized Distributor

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CDBF0130R