

CDBER40-HF

I_o = 200 mA

V_R = 40 Volts

RoHS Device

Halogen Free

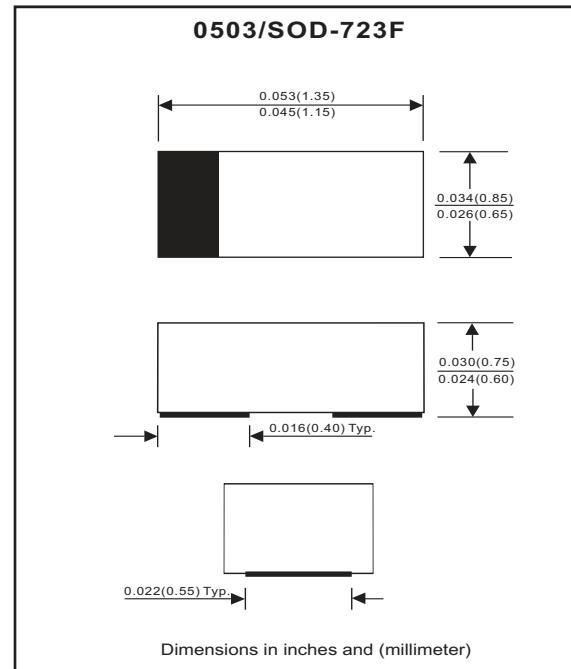


Features

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

Mechanical data

- Case: 0503/SOD-723F standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Marking code: cathode band & BC
- Mounting position: Any
- Weight: 0.002 gram(approx.).



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		V _{RM}			40	V
Reverse voltage		V _R			40	V
RMS reverse voltage		V _{R(RMS)}			28	V
Average forward rectified current		I _o			200	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I _{FSM}			0.6	A
Power dissipation		P _D			150	mW
Storage temperature		T _{STG}	-65		+125	°C
Junction temperature		T _j			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 1mA I _F = 40mA	V _F			0.38 1	V
Reverse current	V _R = 30V	I _R			0.2	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C _T			5	pF
Reverse recovery time	I _F =I _R =10mA,I _{rr} =0.1xI _R ,RL=100 ohm	T _{rr}			5	nS

RATING AND CHARACTERISTIC CURVES (CDBER40-HF)

Fig. 1 - Forward characteristics

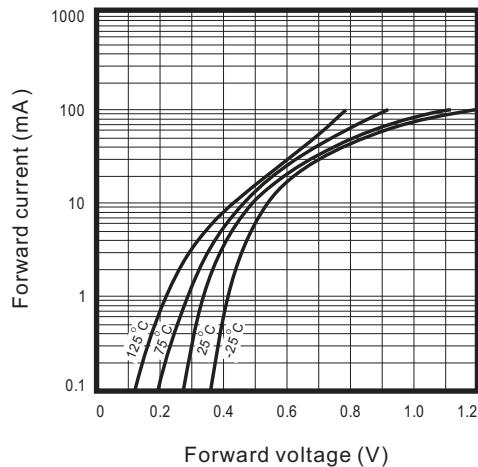


Fig. 2 - Reverse characteristics

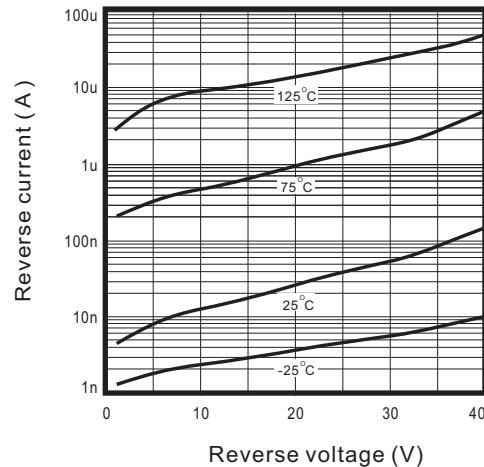


Fig.3 - Capacitance between terminals characteristics

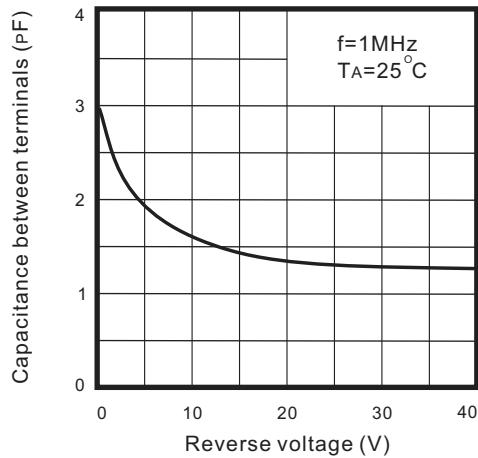
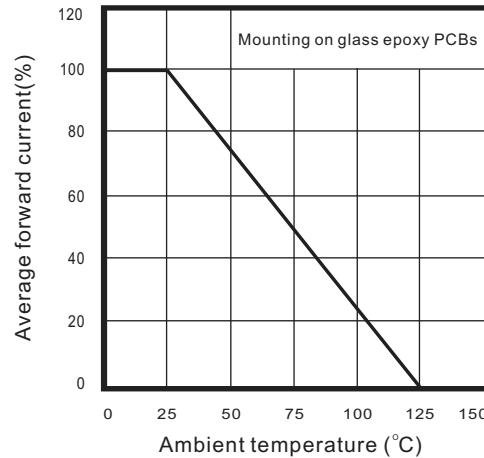
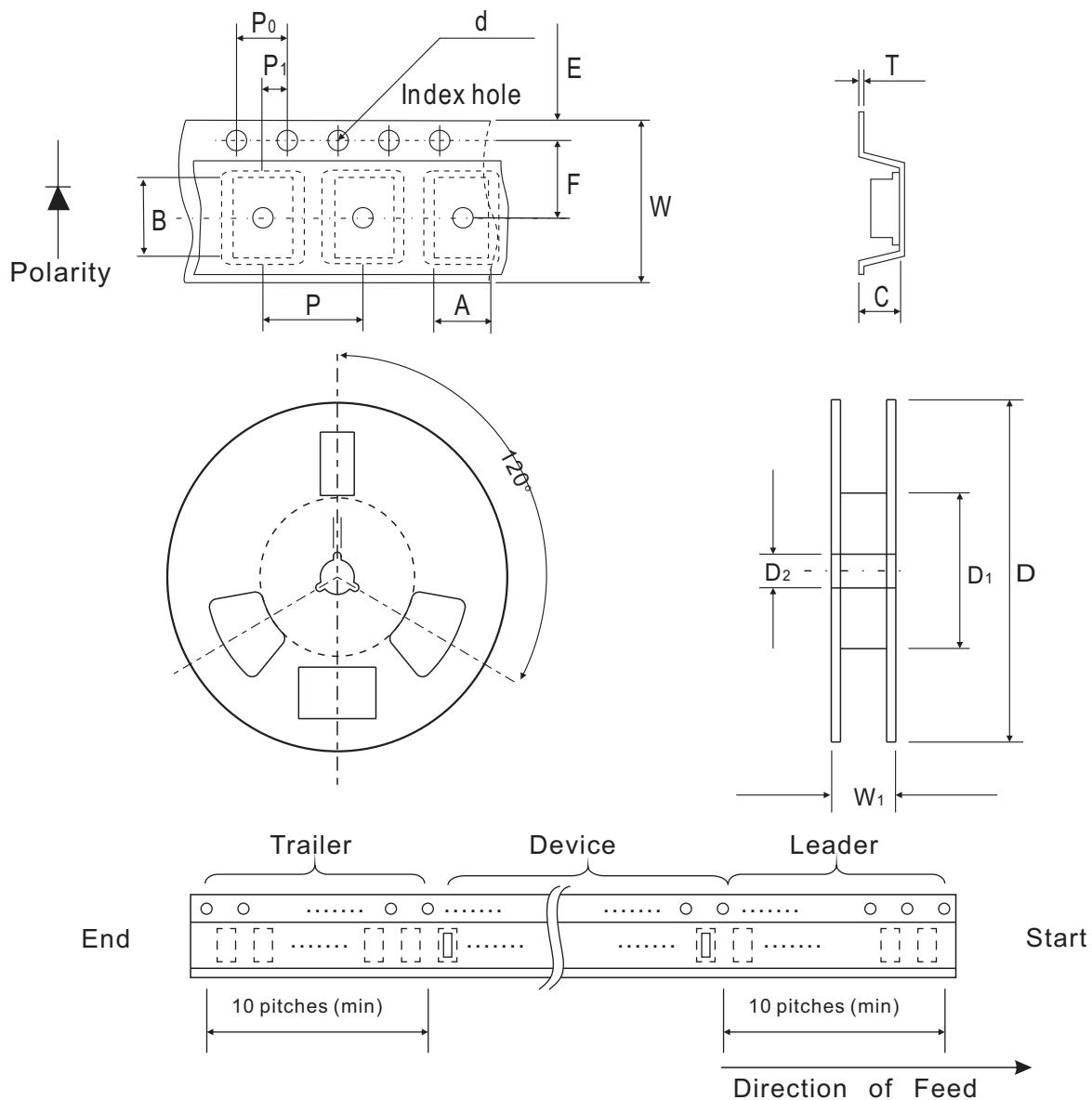


Fig.4 - Current derating curve



Reel Taping Specification



0503 (SOD-723F)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	0.90±0.10	1.46±0.10	0.80±0.10	1.55±0.05	178±1	60.0 MIN.	13.0±0.20
	(inch)	0.035±0.004	0.057±0.004	0.031±0.004	0.061±0.002	7.008±0.04	2.362 MIN.	0.512±0.008

0503 (SOD-723F)	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±0.10	0.22±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	0.008±0.002	0.315±0.008	0.531 MAX.

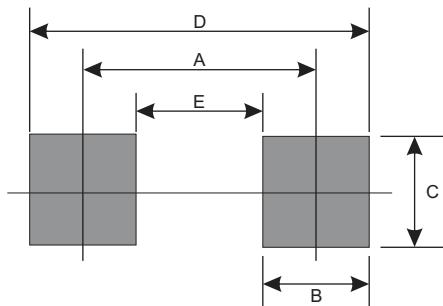
Marking Code

Part Number	Marking Code
CDBER40-HF	BC



Suggested PAD Layout

SIZE	0503/SOD-723F	
	(mm)	(inch)
A	0.85	0.033
B	0.55	0.022
C	0.85	0.033
D	1.40	0.055
E	0.30	0.012



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
0503/SOD-723F	4000	7