

CDBUC00340-HF

High-Reliability and High-Performance

I_o = 30 mA
V_R = 40 Volts
RoHS Device
Halogen Free



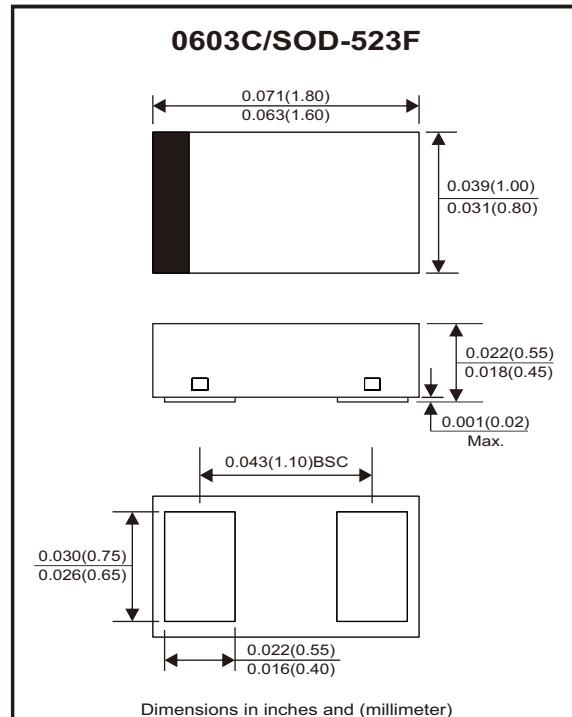
Features

- Designed for mounting on small surface.
- Extremely thin package.
- Low stored charge.
- Majority carrier conduction.

Mechanical data

- Case: 0603C/SOD-523F standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting position: Any.
- Weight: 0.003 grams (approx.).

Circuit Diagram



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V _{RRM}			45	V
Reverse voltage		V _R			40	V
Average forward current		I _o			30	mA
Forward current, surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I _{FSM}		500		mA
Power dissipation		P _D			150	mW
Junction temperature		T _j			+125	°C
Storage temperature range		T _{STG}	-40		+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 1mA DC	V _F			0.37	V
Reverse current	V _R = 40V	I _R			1.00	μA
Capacitance between terminals	f = 1MHz and 1 VDC reverse voltage	C _T		1.5		pF

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Rating and Characteristic Curves (CDBUC00340-HF)

Fig.1 - Forward Characteristics

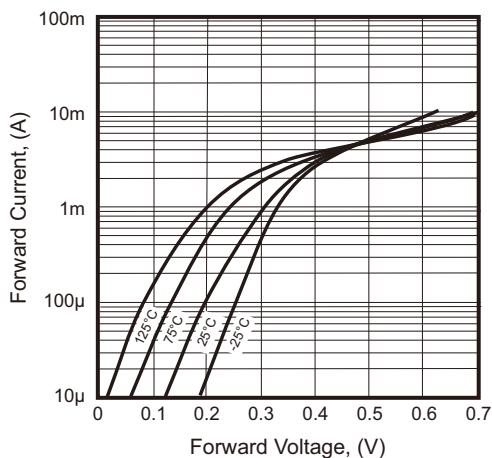


Fig.2 - Reverse Characteristics

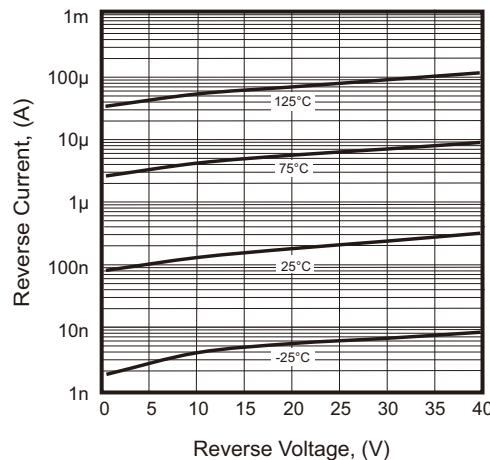


Fig.3 - Capacitance Between Terminals Characteristics

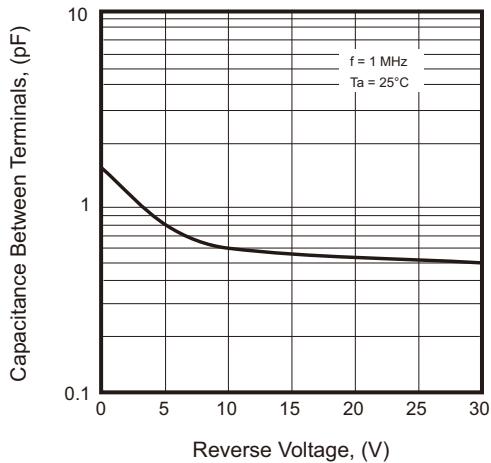
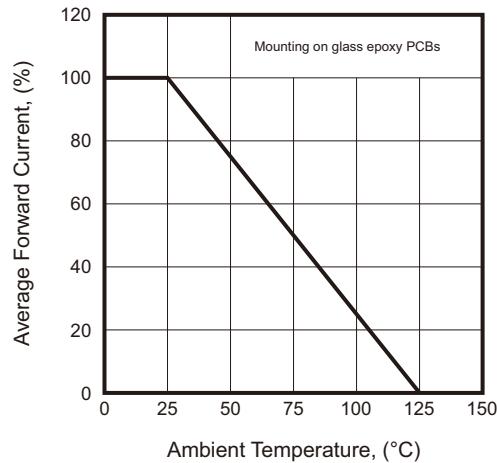
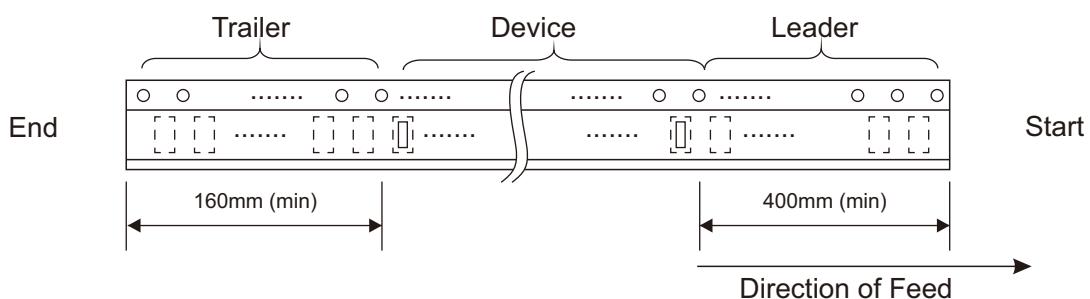
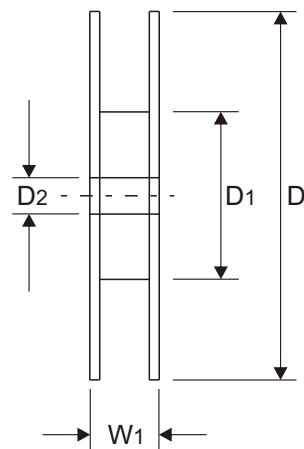
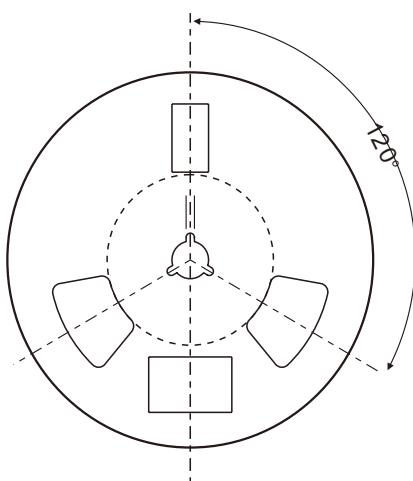
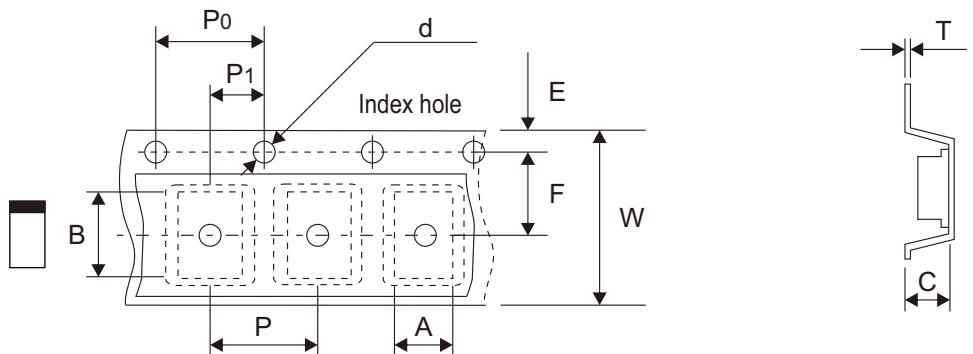


Fig.4 - Current Derating Curve



Reel Taping Specification



	SYMBOL	A	B	C	d	D	D1	D2
0603C (SOD-523F)	(mm)	1.05 ± 0.05	1.96 ± 0.05	0.57 ± 0.05	$1.50 + 0.10$ $- 0.00$	178.00 ± 1.00	60.00 ± 0.50	13.50 ± 0.20
	(inch)	0.041 ± 0.002	0.077 ± 0.002	0.022 ± 0.002	$0.059 + 0.004$ $- 0.000$	7.008 ± 0.039	2.362 ± 0.020	0.531 ± 0.008

	SYMBOL	E	F	P	P0	P1	T	W	W1
0603C (SOD-523F)	(mm)	1.75 ± 0.10	3.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.05	2.00 ± 0.05	0.20 ± 0.03	8.00 ± 0.20	$12.00 + 0.50$ $- 0.00$
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.157 ± 0.004	0.157 ± 0.002	0.079 ± 0.002	0.008 ± 0.001	0.315 ± 0.008	$0.472 + 0.020$ $- 0.000$

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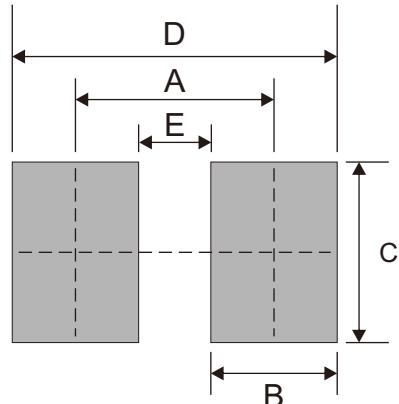
Marking Code

Park Number	Marking Code
CDBUC00340-HF	B2



Suggested P.C.B. PAD Layout

SIZE	0603C/SOD-523F	
	(mm)	(inch)
A	1.10	0.043
B	0.70	0.028
C	1.00	0.039
D	1.80	0.071
E	0.40	0.016



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
0603C/SOD-523F	4,000	7

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