

CDBUR0245-HF

I_o = 200 mA

V_R = 45 Volts

RoHS Device

Halogen Free

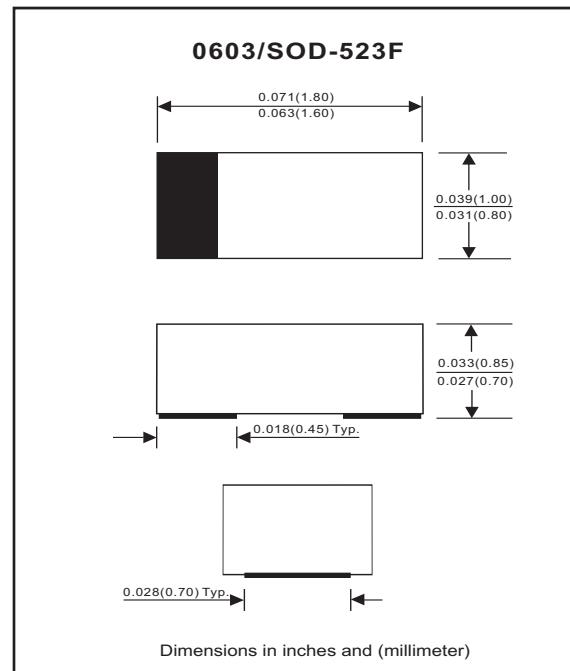


Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Low leakage current (I_R=0.1uA typ.@V_R=10V).
- Majority carrier conduction.

Mechanical data

- Case: 0603/SOD-523F standard package, molded plastic.
- Terminals: Gold plated, solderable per MIL-STD-750, method 2026.
- Marking code: cathode band & B6
- Mounting position: Any
- Weight: 0.003 gram(approx.).



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V _{RRM}			50	V
Reverse voltage		V _R			45	V
Average forward current		I _o			200	mA
Forward current,surge peak	8.3ms single half sine-wave superimposed on rate load(JEDEC method)	I _{FSM}		2000		mA
Power Dissipation		P _D			150	mW
Storage temperature		T _{TG}	-40		+125	°C
Junction temperature		T _j	-40		+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 200 mA DC	V _F			0.55	V
Reverse current	V _R = 10 V	I _R			1	uA
Capacitance between terminals	f = 1 MHz, and 10VDC reverse voltage	C _T		9		pF

RATING AND CHARACTERISTIC CURVES (CDBUR0245-HF)

Fig. 1 - Forward characteristics

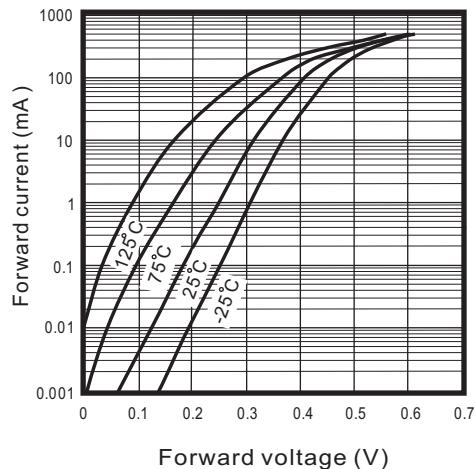


Fig. 2 - Reverse characteristics

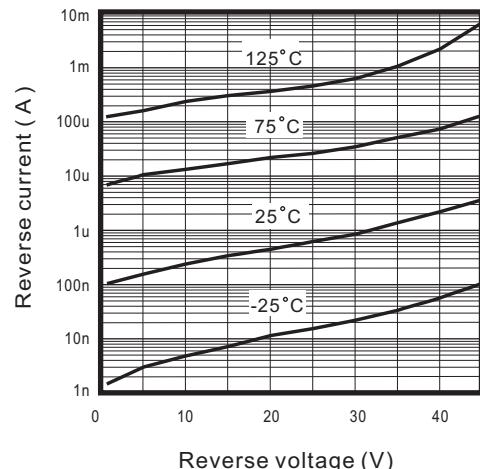


Fig. 3 - Capacitance between terminals characteristics

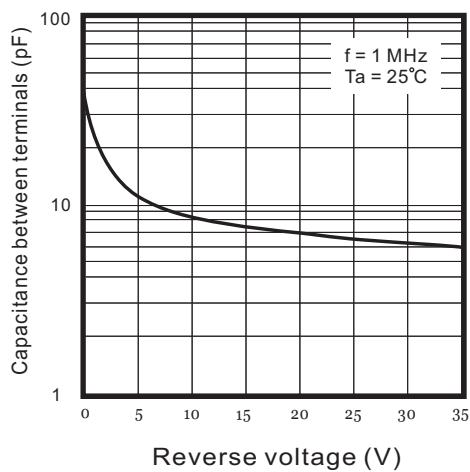
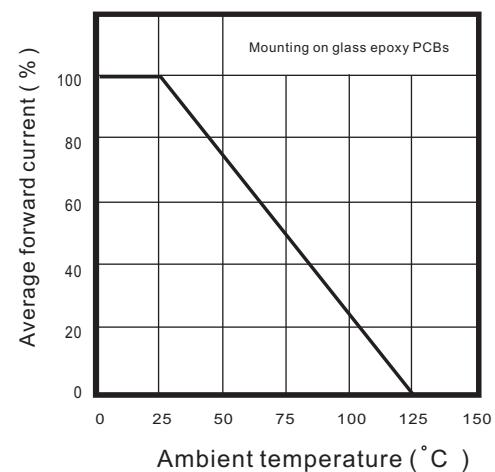
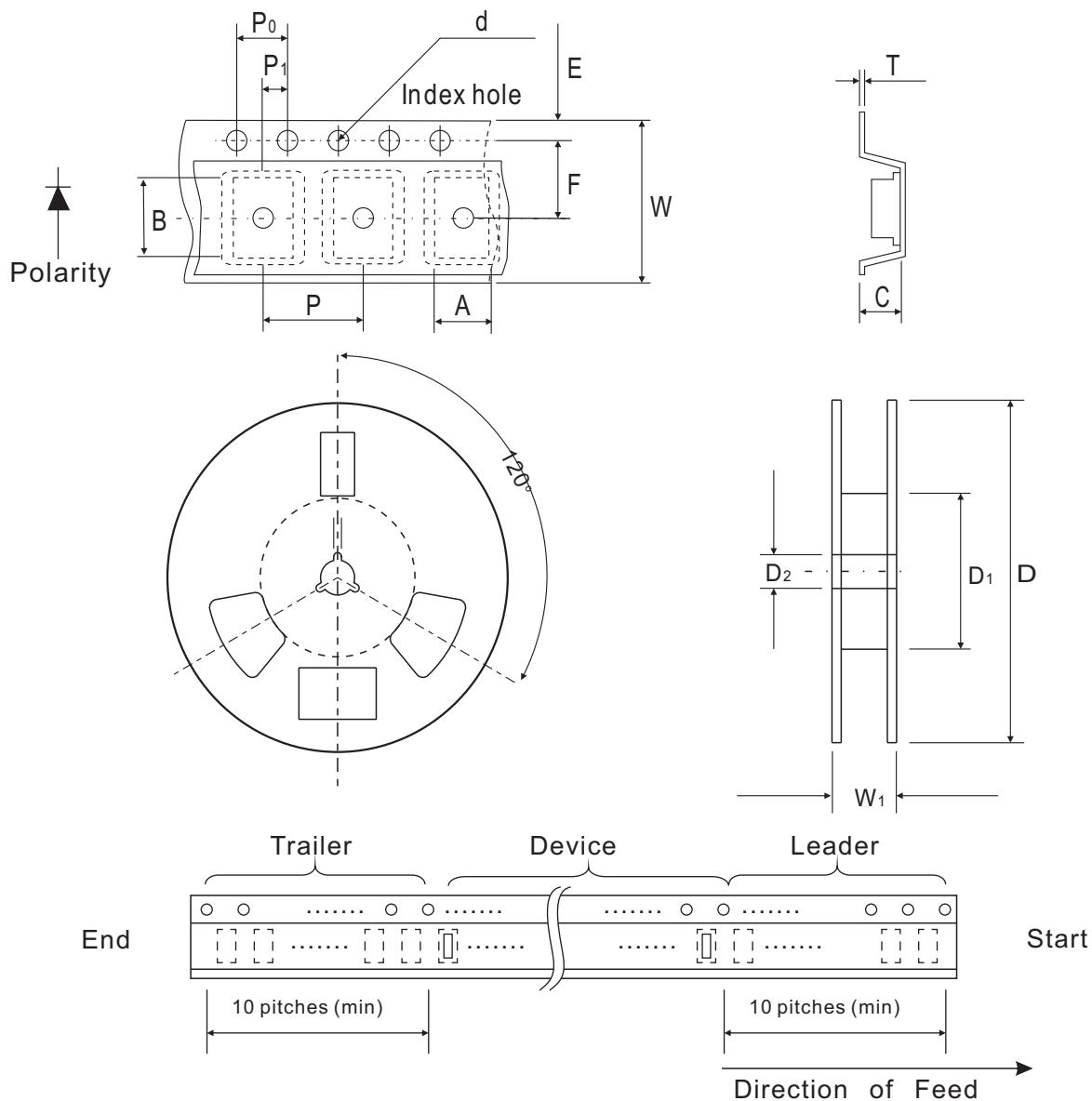


Fig. 4 - Current derating curve



Reel Taping Specification



0603 (SOD-523F)	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.00±0.10	1.85±0.10	1.00±0.10	1.55±0.05	178±1	60.0 MIN.	13.0±0.20
	(inch)	0.039±0.004	0.073±0.004	0.039±0.004	0.061±0.002	7.008±0.04	2.362 MIN.	0.512±0.008

0603 (SOD-523F)	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±0.20	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.

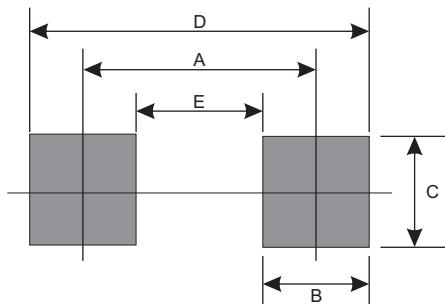
Marking Code

Park Number	Marking Code
CDBUR0245-HF	B6



Suggested PAD Layout

SIZE	0603/SOD-523F	
	(mm)	(inch)
A	1.25	0.049
B	0.60	0.024
C	1.00	0.039
D	1.85	0.073
E	0.65	0.026



Standard Package

Case Type	Qty per Reel	Reel Size
	(Pcs)	(inch)
0603/SOD-523F	4000	7