

CDBU0520-HF

Io = 500 mA VR = 20 Volts RoHS Device Halogen Free

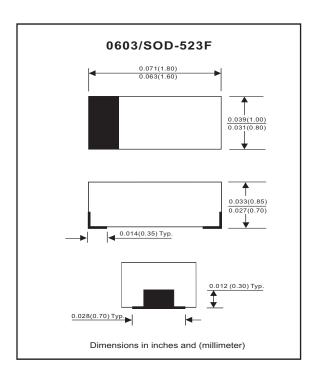


Features

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

Mechanical data

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



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

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Peak reverse voltage		VRM			30	V
Reverse voltage		VR			20	V
Average forward rectified current		lo			0.5	Α
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	IFSM			2	Α
Storage temperature		Тѕтс	-40		+125	°C
Junction temperature		Tj			+125	°C

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

Parameter Conditions		Symbol	Min	Тур	Max	Unit
Forward voltage	IF = 100mA IF = 500mA	VF			0.36 0.47	V
Reverse current VR = 20V		IR			100	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	Ст		100		pF



RATING AND CHARACTERISTIC CURVES (CDBU0520-HF)

Fig. 1 - Forward characteristics

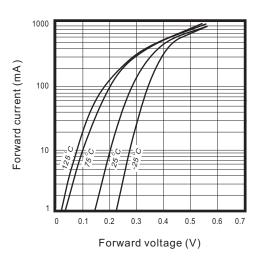


Fig. 3 - Capacitance between terminals characteristics

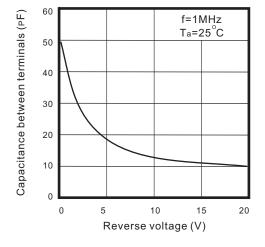


Fig. 2 - Reverse characteristics

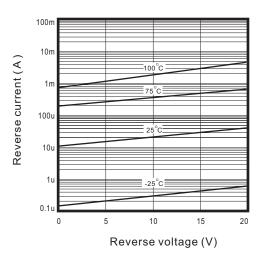
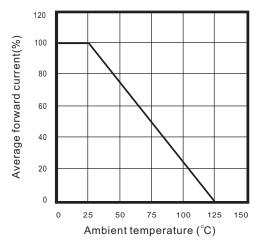
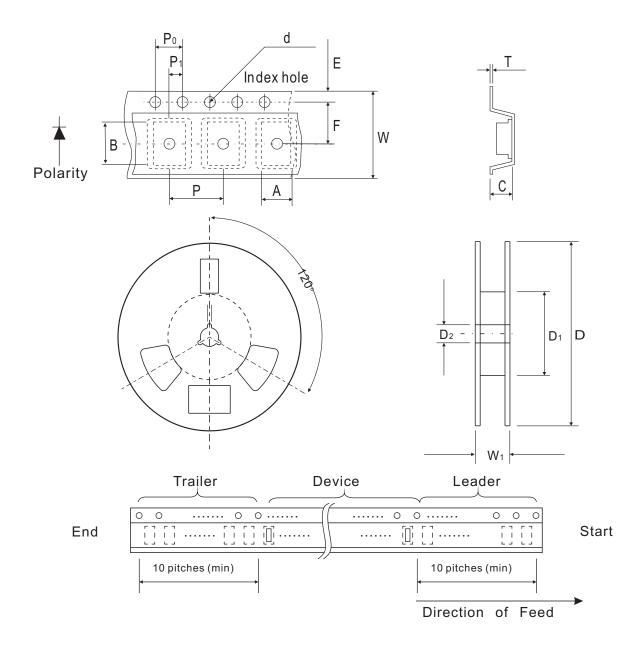


Fig.4 - Current derating curve





Reel Taping Specification



0000	SYMBOL	Α	В	С	d	D	D ₁	D ₂
0603 (SOD-523F)	(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

	SYMBOL	Е	F	Р	Po	P ₁	Т	W	W ₁
0603 (SOD-523F)	(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.



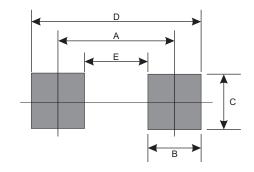
Marking Code

Park Number	Marking Code
CDBU0520-HF	BL



Suggested PAD Layout

SIZE	0603/SOD-523F			
SIZE	(mm)	(inch)		
Α	1.70	0.067		
В	0.60	0.024		
С	0.80	0.031		
D	2.30	0.091		
E	1.10	0.043		



Standard Package

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

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