

CDBU0320/0330/0340-HF

Io = 350 mA VR = 20 to 40 Volts RoHS Device Halogen Free



Features

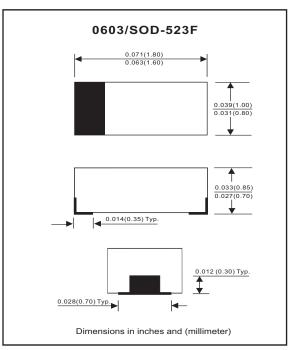
- -Low forward voltage.
- -Designed for mounting on small surface.
- -Extremely thin / leadless package.
- -Majority carrier conduction.

Mechanical data

- -Case: 0603/SOD-523F standard package, molded plastic.
- -Terminals: Gold plated, solderable per MIL-STD-750,method 2026.
- -Marking code:

CDBU0320-HF : BH CDBU0330-HF : BJ CDBU0340-HF : BK

- -Mounting position: Any
- -Weight: 0.003 gram(approx.).



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

,					
Parameter	Symbol	CDBU0320-HF CDBU0330-HF		CDBU0340-HF	Unit
Repetitive Peak reverse voltage Reverse voltage	Vrrm Vr	20	30	40	V
RMS reverse voltage	VR(RMS)	14	21	28	V
Average forward rectified current	lo	350			mA
Forward current, surge peak 8.3 ms single half sine-wave	IFSM	1.5			А
Power dissipation	Pp	150			
Thermal resistance junction to ambient air	RөJA	667			°C/W
Storage temperature	Тѕтс	-65 to +125			°C
Junction temperature	Tj	+125			°C

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

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Reverse current CDBU0320-HF CDBU0330-HF CDBU0340-HF	VR = 20V VR = 30V VR = 40V	lr			5 5 5	uA
Forward voltage	IF = 20mA IF = 200mA	VF			0.37 0.60	V
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	Ст		50		pF
Reverse recovery time	IF=IR=10mA,Irr=0.1xIR,RL=100 ohm	Trr	·	6.4		nS

Company reserves the right to improve product design, functions and reliability without notice.

SMD Schottky Barrier Diode



RATING AND CHARACTERISTIC CURVES (CDBU0320/0330/0340-HF)

Fig. 1 - Forward characteristics

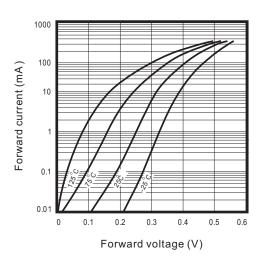


Fig.3 - Capacitance between terminals characteristics

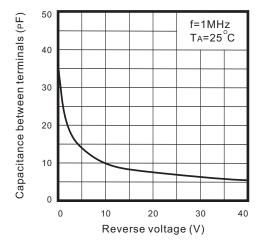


Fig. 2 - Reverse characteristics

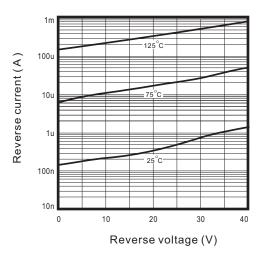
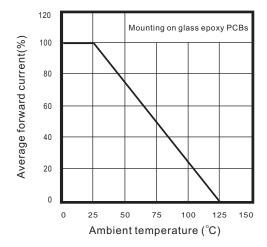
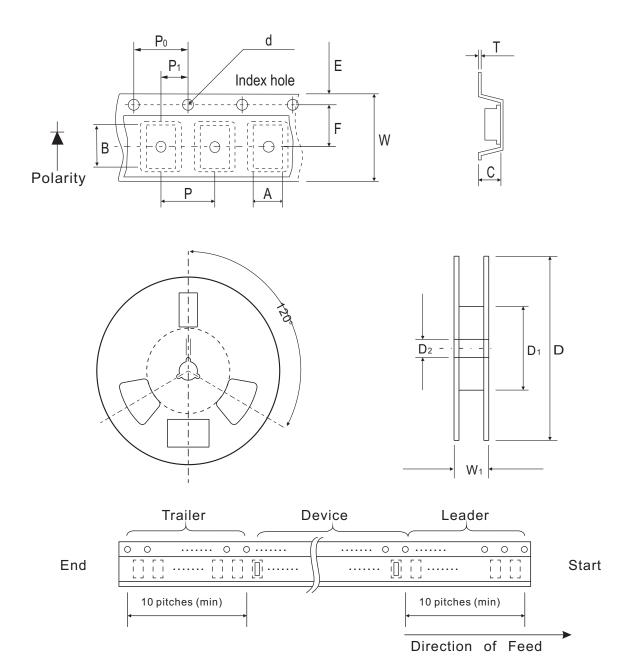


Fig.4 - Current derating curve





Reel Taping Specification



0000	SYMBOL	Α	В	С	d	D	D ₁	D2
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

0000	SYMBOL	Е	F	Р	Po	P ₁	T	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

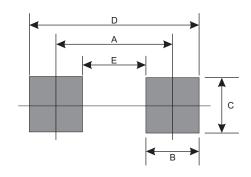
Part Number	Marking Code
CDBU0320-HF	ВН
CDBU0330-HF	BJ
CDBU0340-HF	ВК



xx = Product type marking code

Suggested PAD Layout

SIZE	0603/SOD-523F			
	(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	

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Comchip Technology: CDBU0340 CDBU0340-HF