imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



SMD Schottky Barrier Diode

CDBV120-G THRU. CDBV140-G

Io=1.0A VR=20 ~ 40V RoHS Device

Features

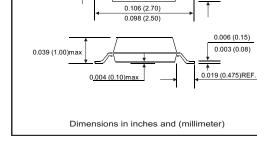
-For use in low voltage, high frequency inverters. -Free wheeling, and polarity protection applications.

Mechanical Data

- -Case: Molded plastic SOD-323
- -Terminals: Solderable per MIL-STD-750, Method 2026.1.
- -Polarity: Indicated by cathode band.
- -Mounting position: Any.

-Marking:

CDBV120-G : SJ CDBV130-G : SK CDBV140-G : SL



0.014 (0.35)

0.010 (0.25)

SOD-323

0.071 (1.80)

Maximum Ratings (at T_A=25°C unless otherwise specified)

Parameter	Symbol	CDBV120-G CDBV130-G		CDBV140-G	Unit
Non-repetitive peak reverse voltage	Vrm	20 30		40	V
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	Vrrm Vrwm Vr	20	30	40	V
RMS reverse voltage	VR(RMS)	14	21	28	V
Average rectified output current	lo		А		
Peak forward surge current @Tp=8.3mS	IFSM		А		
Repetitive peak forward current	Ifrm		mA		
Power dissipation	Po		mW		
Thermal resistance (junction to ambient)	Reja		°C/W		
Storage temperature	Тѕтс		°C		

Electrical Characteristics (at T_A=25°C unless otherwise specified)

Parameter	Conditions		Symbol	Min.	Max.	Unit
Reverse breakdown voltage	I _R =1mA	CDBV120-G CDBV130-G CDBV140-G	Vbr	20 30 40		V
Reverse leakage current	V _R =20V V _R =30V V _R =40V	CDBV120-G CDBV130-G CDBV140-G	IR		1	mA
Forward voltage	I⊧=1.0A	CDBV120-G CDBV130-G CDBV140-G	VF		0.45 0.55 0.60	v
	I⊧=3.0A	CDBV120-G CDBV130-G CDBV140-G	VF		0.75 0.875 0.90	v
Diode Capacitance	V _R =4V, f=1M	lHz	C⊳		120	pF



0.055 (1.40)

0.047 (1.20)



SMD Diodes Specialist

ELECTRICAL CHARACTERISTIC CURVES (CDBV120-G thru. CDBV140-G)

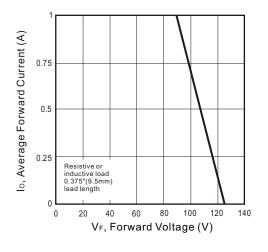
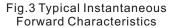


Fig.1 Forward Current Derating Curve



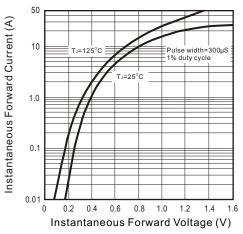
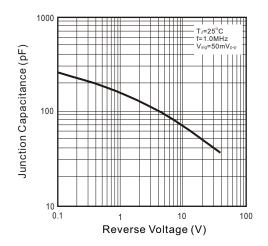


Fig.5 Typical Junction Capacitance



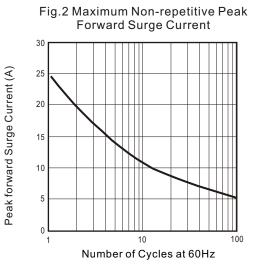


Fig.4 Typical Reverse Characteristics

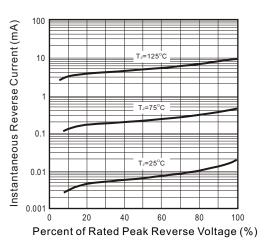


Fig.6 Typical Transient Thermal Impedance

