

SMD Schottky Barrier Diodes

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CDBV0520 - CDBV0540

Voltage: 20- 40 Volts
Current: 0.5 Amp



Features

Extremely Low Drop Down Voltage

Extremely Thin Package

Low Stored Charge

Majority Carrier Conduction

Mechanical data

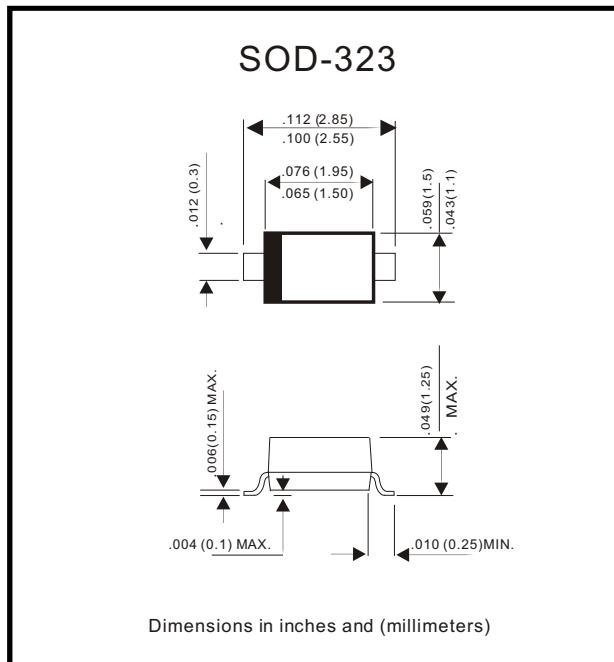
Case: SOD-323, molded plastic

Terminals: solderable per MIL-STD-750,
method 2026

Polarity: Indicated by cathode band

Mounting position: Any

Weight: 0.0045 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBV 0520	CDBV 0530	CDBV 0540	Unit
Max.RepetitivePeak Reverse Voltage	V _{RRM}	20	30	40	V
Max. DC Blocking Voltage	V _{DC}	14	21	28	V
Max. RMS Voltage	V _{RMS}	20	30	40	V
Peak Surge Forward Current 8.3ms single halfsine-wave Sine-wave superimposed on Rate load (JEDEC)	I _{FSM}		2.0		A
Max. AverageForward Current	I _o		0.5		A
Max. Forward Current at 0.1 A 0.5 A	V _F	0.31 0.43	0.36 0.47	0.36 0.47	V
Max. Reverse Current	I _R	0.10 @ V _R =10V 0.25 @ V _R =20V	0.03 @ V _R =10V 0.13 @ V _R =30V	0.03 @ V _R =10V 0.13 @ V _R =30V	mA
Max. Thermal Resistance	R _{θ JA}		426		°C/W
Operating junction temperature	T _j		-40 to +125		°C
Storage temperature	T _{TG}		-40 to +125		°C

Note 1: Thermal resistance from junction to ambient

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RATING AND CHARACTERISTIC CURVES (CDBV0520-0540)

Fig. 1 - Reverse Characteristics
(CDBV0520)

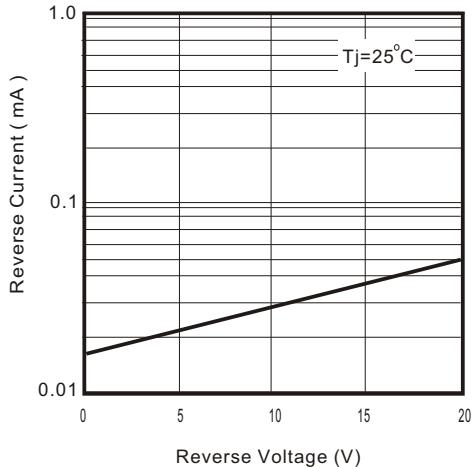


Fig. 1 - Reverse Characteristics
(CDBV0530-0540)

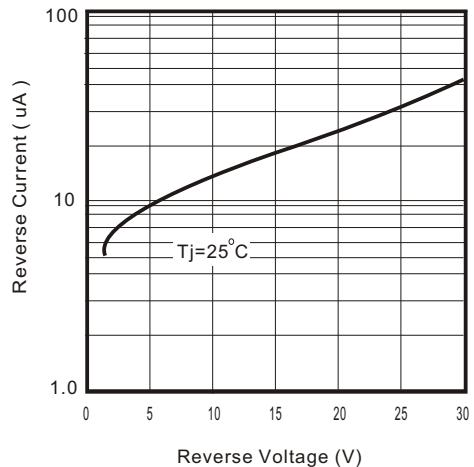


Fig. 3 - Forward Characteristics
(CDBV0520)

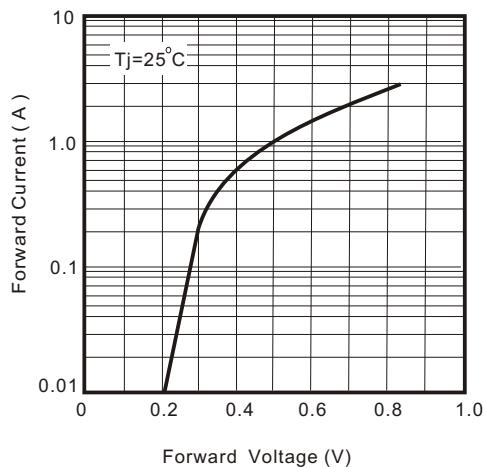


Fig. 4 - Forward Characteristics
(CDBV0530-0540)

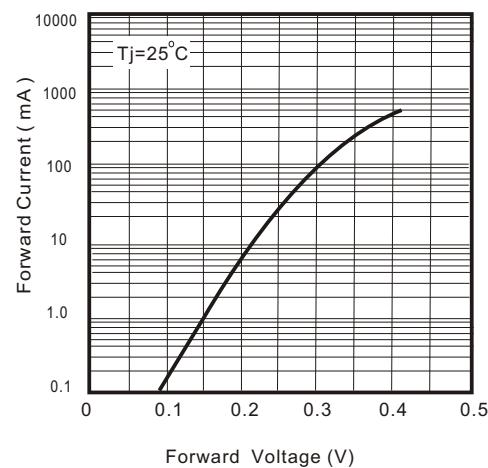


Fig. 5 - Capacitance Between
Terminals characteristics

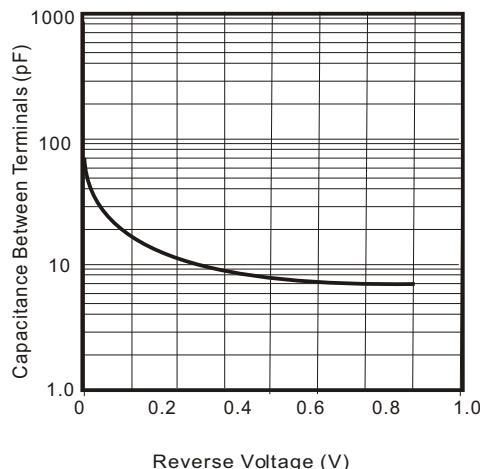


Fig. 6 - Current Derating Curve

