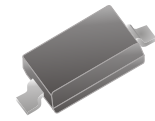


## CDBW0520L-G Thru. CDBW0540-G

Reverse Voltage: 20 to 40 Volts

Forward Current: 0.5 Amp

RoHS Device

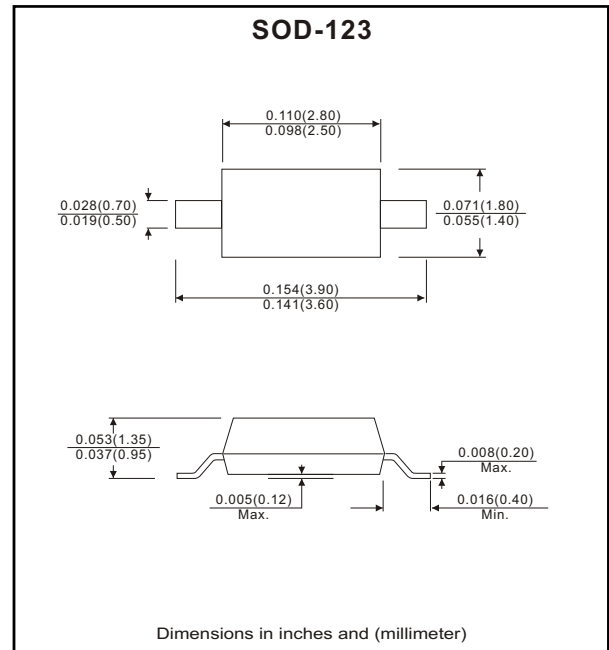


### Features

- Low turn on voltage.
- Fast switching.
- PN junction guard ring for transient and ESD protection.

### Mechanical data

- Case: SOD-123, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Color band denotes cathode end.
- Approx. weight: 0.008 grams



### Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBW0520L-G	CDBW0530-G	CDBW0540-G	Units
Max. repetitive peak reverse voltage	$V_{RRM}$	20	30	40	V
Max. DC blocking voltage	$V_{DC}$	20	30	40	V
Max. RMS voltage	$V_{RMS}$	14	21	28	V
Peak surge forward current, 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$	5.5			A
Max. average forward current	$I_o$	0.5			A
Max. forward voltage	$V_F$	0.3@ $I_F=0.1A$ 0.385@ $I_F=0.5A$	0.375@ $I_F=0.1A$ 0.430@ $I_F=0.5A$	0.51@ $I_F=0.5A$ 0.62@ $I_F=1.0A$	V
Max. reverse current	$I_R$	0.075@ $V_R=10V$ 0.25@ $V_R=20V$	0.02@ $V_R=15V$ 0.13@ $V_R=30V$	0.01@ $V_R=20V$ 0.02@ $V_R=40V$	mA
Max. thermal resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	206 150			$^{\circ}C/W$
Max. operating junction temperature	$T_J$	125			$^{\circ}C$
Storage temperature	$T_{STG}$	-55 to +125			$^{\circ}C$

Notes: 1. Thermal resistance from junction to ambient and junction to lead, mounted on P.C.B. with 0.2x0.2 inch<sup>2</sup> copper pad area.

## RATING AND CHARACTERISTIC CURVES (CDBW0520L-G thru CDBW0540-G)

Fig.1 Forward Characteristics

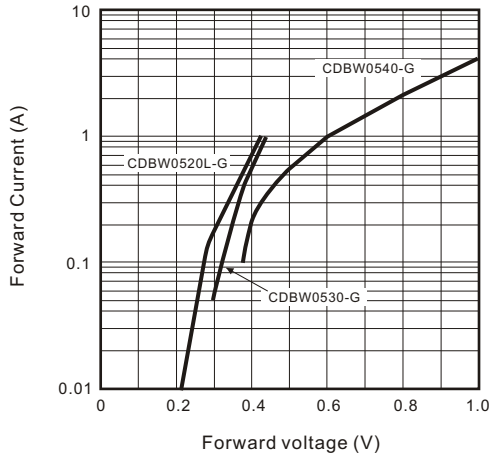


Fig.2 Current Derating Curve

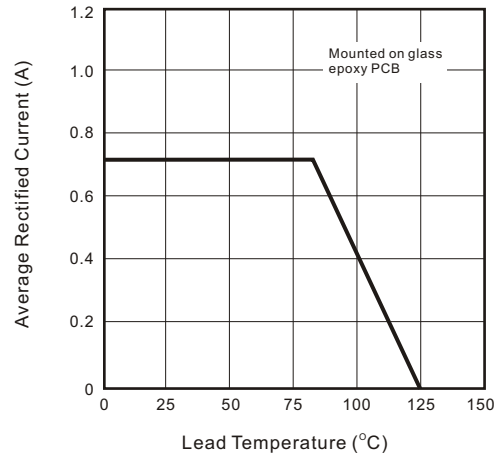


Fig.3 Total Capacitance vs. Reverse voltage

