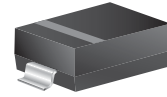


CDBW0520L-G - CDBW0540-G

Voltage: 20- 40 Volts
Current: 0.5 Amp
RoHS Device

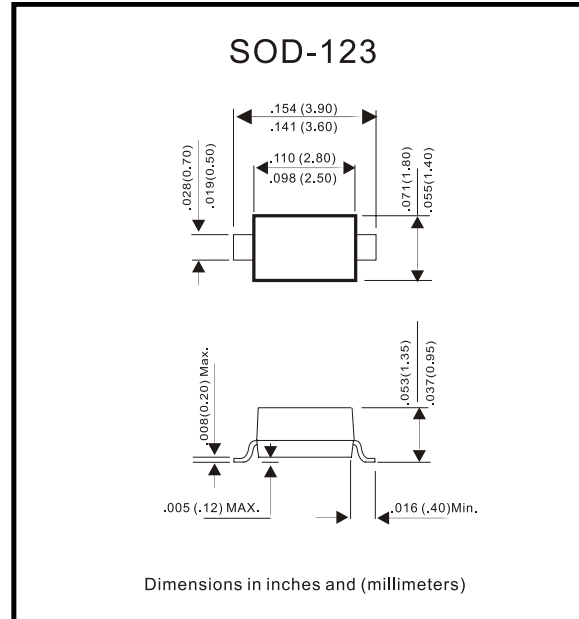


Feature

- 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: Indicated by cathode band
- Approx. Weight: 0.008 grams



Maximum Ratings and Electrical Characteristics

Parameter	Symbol	CDBW0520L-G	CDBW0530-G	CDBW0540-G	Unit
Max.Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
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 Sine-wave superimposed on Rate load (JEDEC)	I _{FSM}	5.5			A
Max. AverageForward 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	R _g JA	206			°C/W
	R _g JL	150			
Max. Operating junction temperature	T _j	125			°C
Storage temperature	T _{STG}	-55 to +125			°C

Note 1: Thermal resistance from junction to ambient and junction to lead Mounted on PCB with 0.2 x 0.2inch² copper pad areas

REV.:A

RATING AND CHARACTERISTIC CURVES (CDBW0520L-G-0540-G)

Fig. 1 - Forward Characteristics

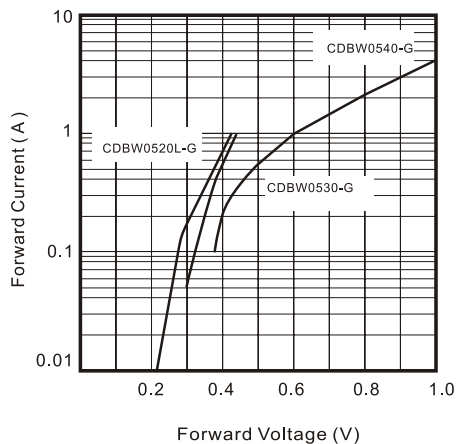


Fig. 2 - Current Derating Curve

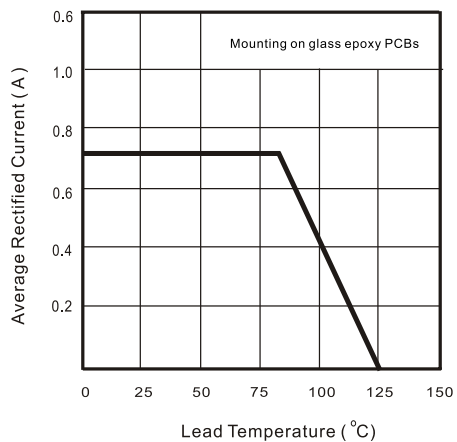


Fig. 3 - Total Capacitance vs Reverse Voltage

