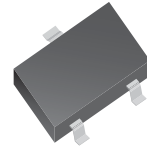


## CDBV3-40/S/C/A-G

Reverse Voltage: 40 Volts  
Forward Current: 200mA  
RoHS Device

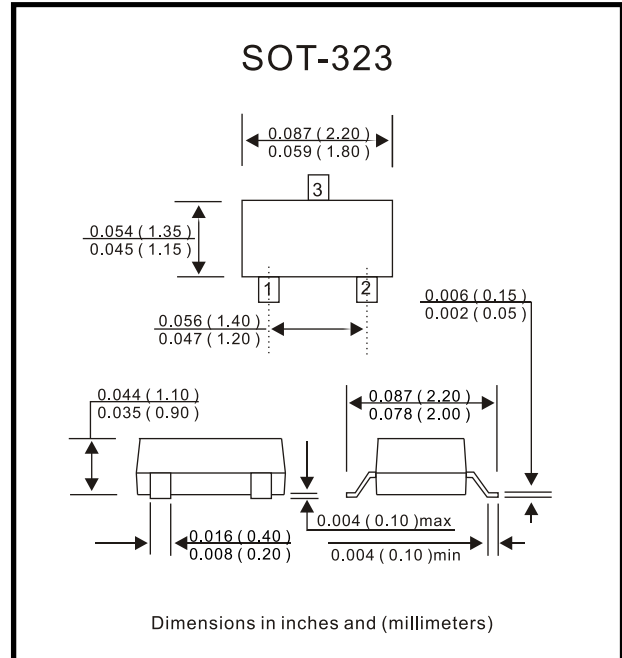
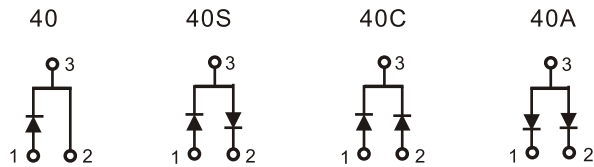


### Features

- Designed for mounting on small surface.
- High speed switching application, circuit protection.
- Low turn-on voltage

### Mechanical data

- Case: SOT-23, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, method 208.
- Approx. weight: 0.006 gram



### Maximum Ratings and Electrical Characteristics ( at Ta = 25°C unless otherwise noted )

Parameter	Condition	Symbol	Value	Unit
Repetitive peak reverse voltage		V <sub>RRM</sub>	40	V
Reverse voltage		V <sub>R</sub>	40	V
Forward current		I <sub>F</sub>	200	mA
Surge peak forward current	T = 1.0 sec	I <sub>FSM</sub>	0.6	A
Power dissipation		P <sub>d</sub>	200	mW
Maximum forward voltage	@ I <sub>F</sub> = 1.0 mA, t <sub>p</sub> <300us @ I <sub>F</sub> = 40 mA, t <sub>p</sub> <300us	V <sub>F</sub>	0.38 1.0	V
Maximum reverse current	@ V <sub>R</sub> = 30V	I <sub>R</sub>	0.2	uA
Max reverse recovery time	Note 1	T <sub>rr</sub>	5	nS
Maximum diode capacitance	V <sub>R</sub> =0V, f=1MHz	C <sub>j</sub>	5	pF
Max. junction temperature		T <sub>j</sub>	125	°C
Storage temperature		T <sub>STG</sub>	-65 to +150	°C

Note 1: I<sub>F</sub>=10mA through I<sub>R</sub>=10mA to I<sub>R</sub>=1.0mA, R<sub>L</sub>=100 ohms

## RATING AND CHARACTERISTIC CURVES (CDBV3-40/S/C/A-G)

Fig. 1 - Forward characteristics

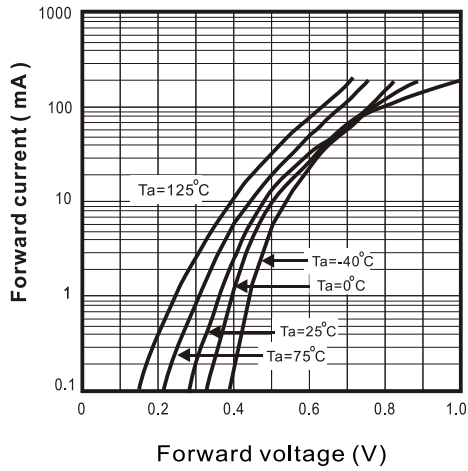


Fig. 2 - Reverse characteristics

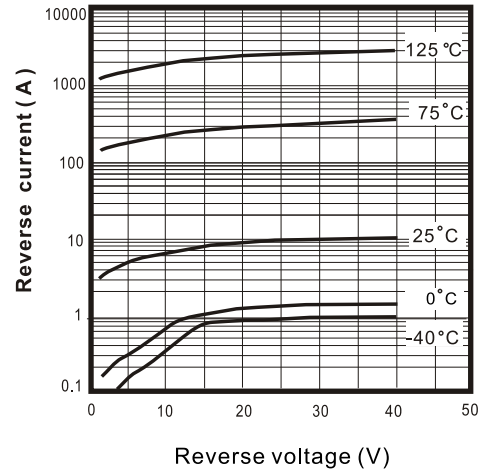


Fig. 3 - Capacitance between terminals characteristics

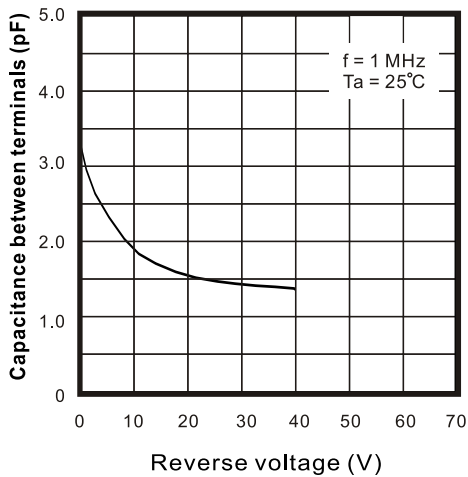


Fig. 4 - Power Derating Curve

