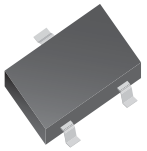
COMCHIP
MD DIODE SPECIALIST

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

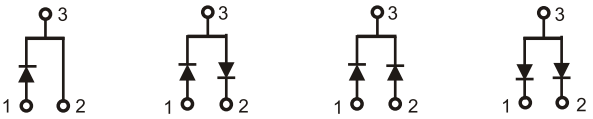
Mechanical data

Case:SOT-23, molded plastic.

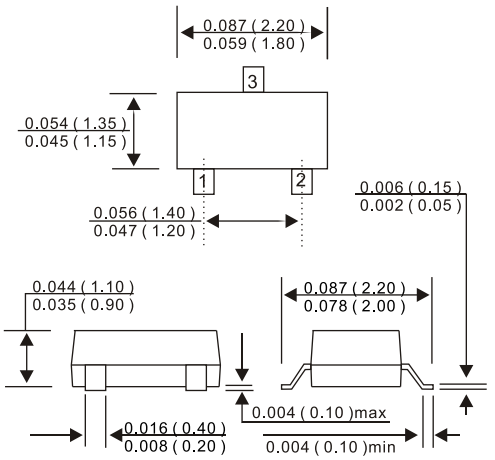
Terminals: Solder plated, solderable per MIL-STD-750, method 208.

Approx. weight: 0.006 gram

40 40S 40C 40A



SOT-323



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

(at Ta = 25°C unless otherwise noted)

Parameter	Condition	Symbol	Value	Unit
Repetitive peak reverse voltage		V_{RRM}	40	V
Reverse voltage		V_R	40	V
Forward current		I_F	200	mA
Surge peak forward current	T = 1.0 sec	I_{FSM}	0.6	A
Power dissipation		Pd	200	mW
Maximum forward voltage	@ IF = 1.0 mA, tp<300us @ IF = 40 mA, tp<300us	V_F	0.38 1.0	V
Maximum reverse current	@ VR = 30V	I_R	0.2	uA
Max reverse recovery time	Note 1	Trr	5	nS
Maximum diode capacitance	VR=0V, f=1MHz	Cj	5	pF
Max. junction temperature		Tj	125	°C
Storage temperature		T_{STG}	-65 to +150	°C

Note1: I_F=10mA through I_R=10mA to I_R=1.0mA, R_L=100 ohms

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

Fig. 1 - Forward characteristics

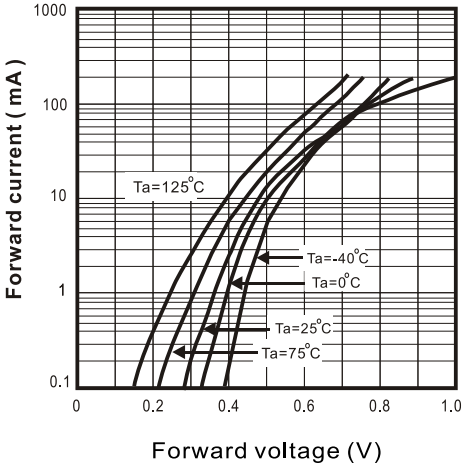


Fig. 2 - Reverse characteristics

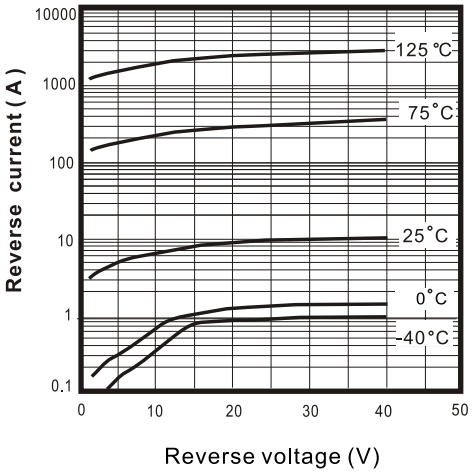


Fig. 3 - Capacitance between terminals characteristics

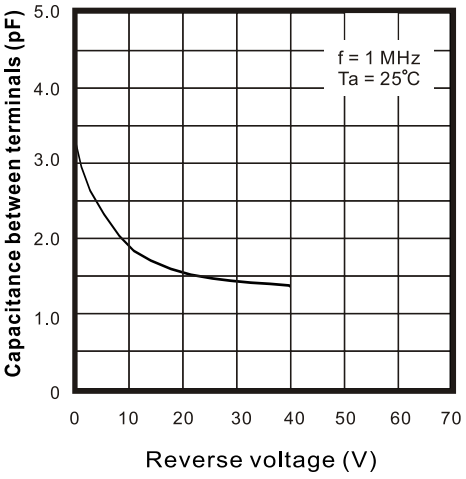


Fig. 4 - Power Derating Curve