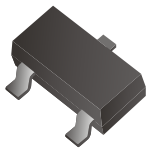
Small Signal Schottky Diodes

COMCHIP
SMD Diodes Specialist

CDBV3-40/S/C/A-G

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



Features

-Design for mounting on small surface.

-High speed switching application, circuit protection.

-Low turn-on voltage.

Mechanical data

-Case: SOT-323, molded plastic.

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

-Approx. weight: 0.006 grams

Circuit diagram



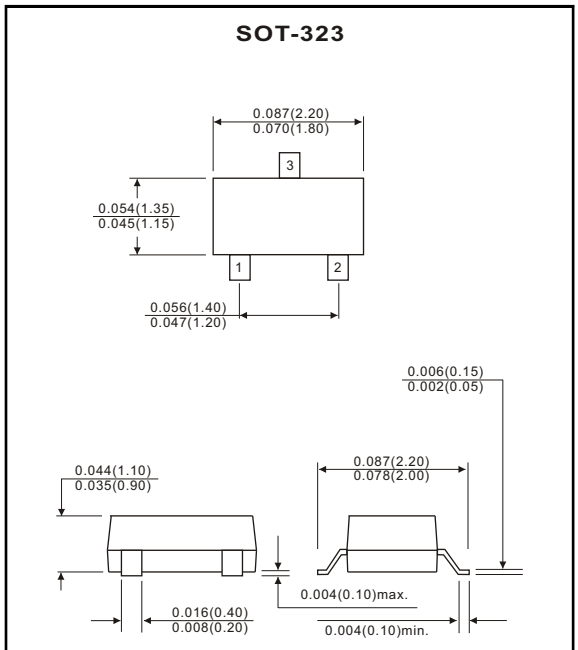
CDBV3-40-G
Marking Code:43

CDBV3-40S-G
Mark Code:44

CDBV3-40C-G
Marking Code: 45

CDBV3-40A-G
Marking Code: 46

SOT-323



Dimensions in inches and (millimeter)

Maximum Ratings (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Peak repetitive peak reverse voltage Working peak reverse voltage DC blocking voltage	V_{RRM} V_{RWM} V_R	40	V
Forward continuous current	I_{FM}	200	mA
Peak surge forward current (T=1.0sec)	I_{FSM}	0.6	A
Power dissipation	P_D	150	mW
Thermal resistance, junction to ambient	$R_{\theta JA}$	833	°C/W
Junction temperature	T_J	125	°C
Storage temperature	T_{STG}	-65 to +125	°C

Electrical Characteristics (at Ta=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Max.	Units
Reverse breakdown voltage	V_{BR}	I_R=10μA	40		V
Reverse voltage leakage current	I_R	V_R=30V		200	nA
Forward voltage	V_F	I_F=1mA I_F=40mA		380 1000	mV
Diode capacitance	C_D	V_R=0V, f=1.0MHz		5	pF
Reverse recovery time	T_{rr}	I_{rr}=1mA, I_F=I_R=10mA, R_L=100Ω		5	nS

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

Fig.1 Forward Characteristics

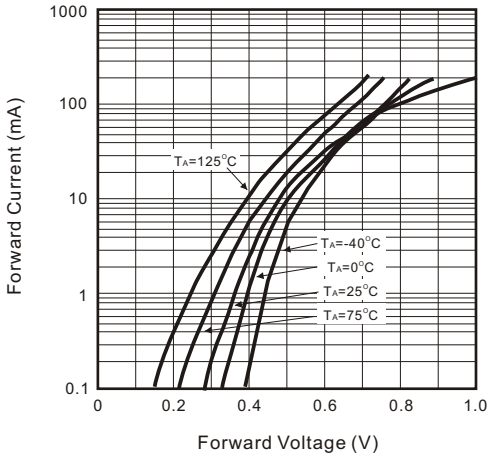


Fig.2 Reverse Characteristics

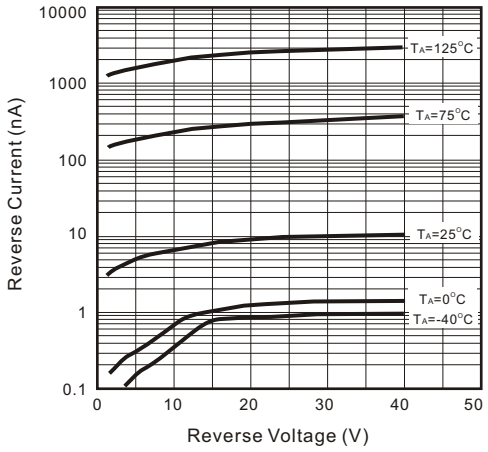


Fig.3 Capacitance Between Terminals Characteristics

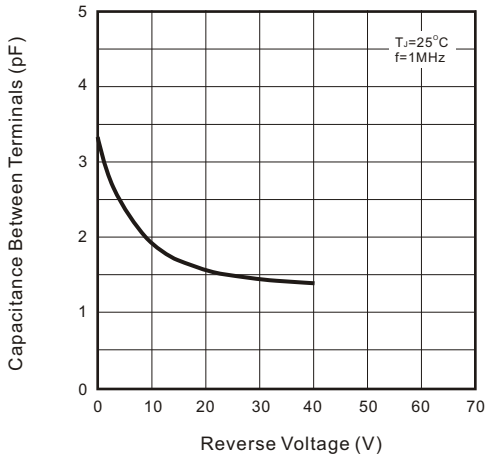


Fig.4 Power Derating Curve

