

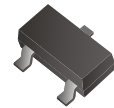
Small Signal Schottky Diodes



SMD Diodes Specialist

CDBH3-00340-G

Reverse Voltage: 40Volts
 Forward Current: 30mA
 RoHS Device



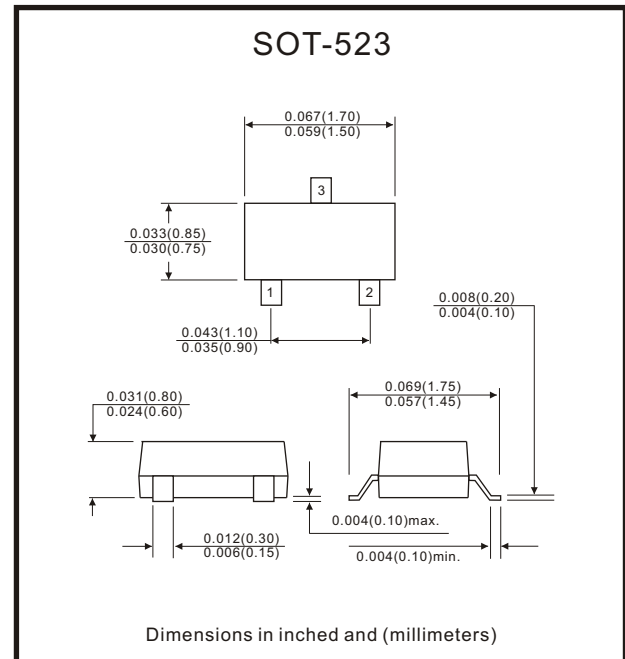
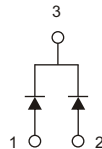
Features

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

Mechanical data

- Case: SOT-523, molded plastic.
- Terminals: Solder plated, solderable per MIL-STD-750, method 208.
- Approx. weight: 0.002 grams.

Equivalent circuit:



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

Parameter	Conditions	Symbol	Min	Typ.	Max	Unit
Repetitive peak reverse voltage		V_{RRM}			40	V
Reverse voltage		V_R			40	V
Average forward current		I_o			30	mA
Forward current, surge peak	8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}		200		mA
Power dissipation		P_D			150	mW
Storage temperature		T_{STG}	-40		+125	°C
Max. junction temperature		T_J			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ.	Max	Unit
Forward voltage	$I_F=1mA$	V_F			0.37	V
Reverse current	$V_R=10V$	I_R			1	μA
Capacitance between terminals	$f=1MHz, V_R=1V$	C_T		1.5	2	pF

RATING AND CHARACTERISTIC CURVES (CDBH3-00340C-G)

Fig.1-Forward characteristics

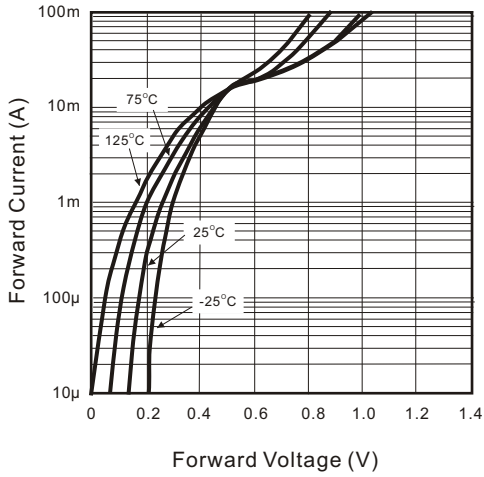


Fig.1-Reverse characteristics

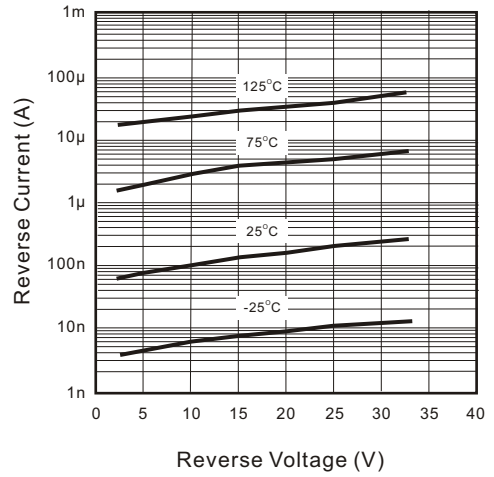


Fig.3-Capacitance Between Terminals Characteristics

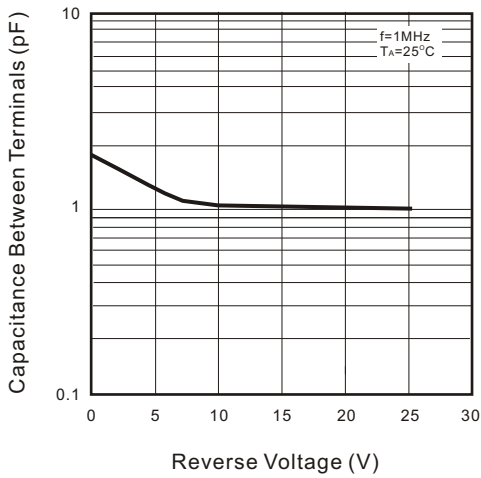


Fig.4-Power Derating Curve

