

SMD Schottky Barrier Diode

COMCHIP
SMD Diodes Specialist

CDBF40 (RoHS Device)

Io = 200 mA

VR = 40 Volts



Features

Low forward Voltage.

Designed for mounting on small surface.

Extremely thin / leadless package.

Majority carrier conduction.

Mechanical data

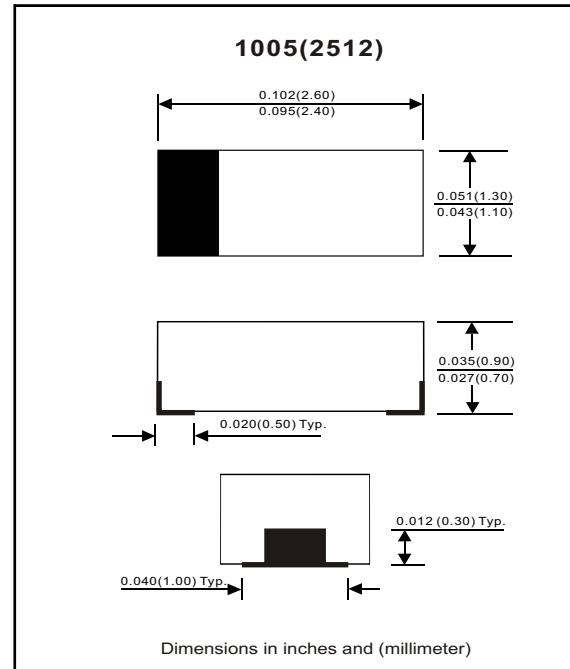
Case: 1005(2512) standard package,
molded plastic.

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

Polarity: Indicated by cathode band.

Mounting position: Any

Weight: 0.006 gram(approx.).



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		VRM			40	V
Reverse voltage		VR			40	V
RMS reverse voltage		VR(RMS)			28	V
Average forward rectified current		Io			200	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I _{FSM}			0.6	A
Power dissipation		P _D			200	mW
Storage temperature		T _{STG}	-65		+125	°C
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 I _F = 40mA	V _F			0.38 1	V
Reverse current	VR = 30V	I _R			0.2	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C _T			5	pF
Reverse recovery time	I _F =I _R =10mA,I _{RR} =0.1xI _R ,RL=100 ohm	T _{rr}			5	nS

RATING AND CHARACTERISTIC CURVES (CDBF40)

Fig. 1 - Forward characteristics

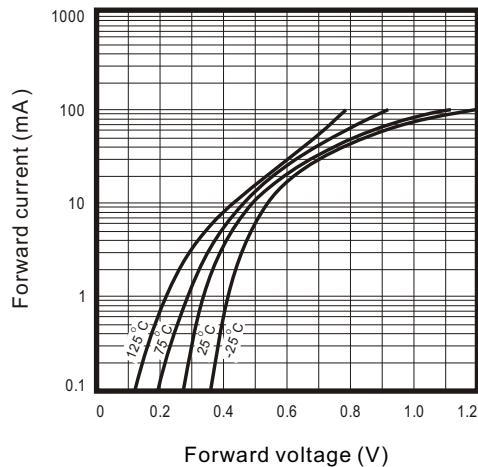


Fig. 2 - Reverse characteristics

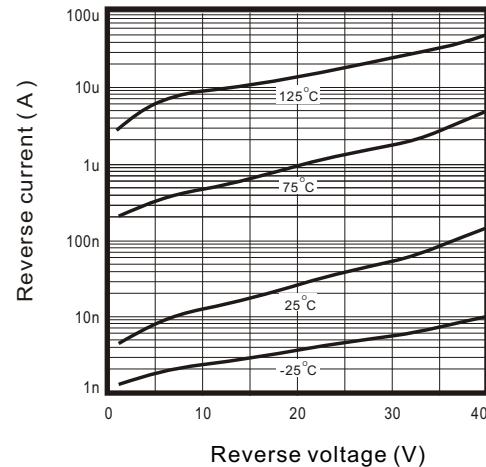


Fig.3 - Capacitance between terminals characteristics

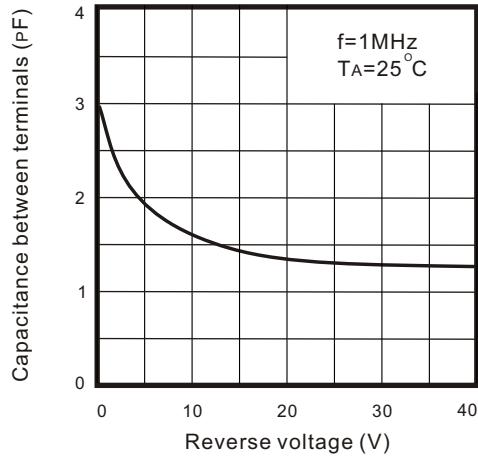


Fig.4 - Current derating curve

