

SMD Schottky Barrier Diode

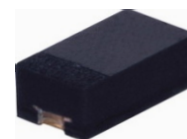


SMD Diodes Specialist

CDBF0240 (Lead-free Device)

$I_o = 200 \text{ mA}$

$V_R = 40 \text{ Volts}$



Features

Designed for mounting on small surface.

Extremely thin/leadless package.

Majority carrier conduction.

Mechanical data

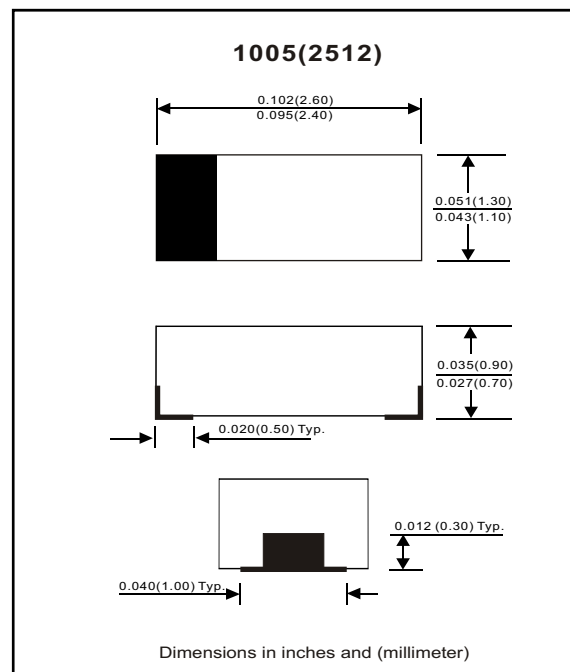
Case: 1005(2512) standard package,
molded plastic.

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 $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V_{RRM}			45	V
Reverse voltage		V_R			40	V
Average forward current		I_o			200	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load(JEDEC method)	I_{FSM}		3000		mA
Power Dissipation		P_D			250	mW
Snction temperature		T_{STG}	-40		+125	$^{\circ}\text{C}$
Junction temperature		T_j			+125	$^{\circ}\text{C}$

Electrical Characteristics (at $T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 200 \text{ mA DC}$	V_F		0.45	0.55	V
Reverse current	$V_R = 30\text{V}$	I_R		1	10	μA
Capacitance between terimnals	$F = 1 \text{ MHz}$ and 10 VDC reverse voltage	C_T		9		pF

RATING AND CHARACTERISTIC CURVES (CDBF0240)

Fig. 1 - Forward characteristics

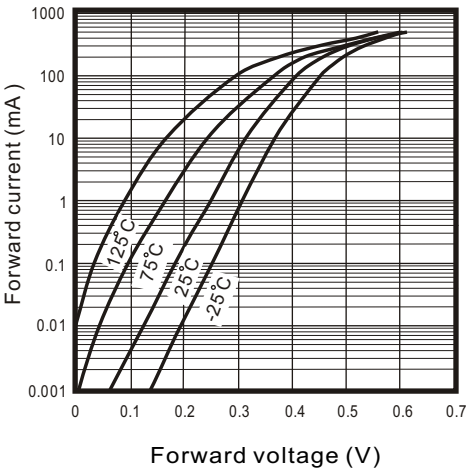


Fig. 2 - Reverse characteristics

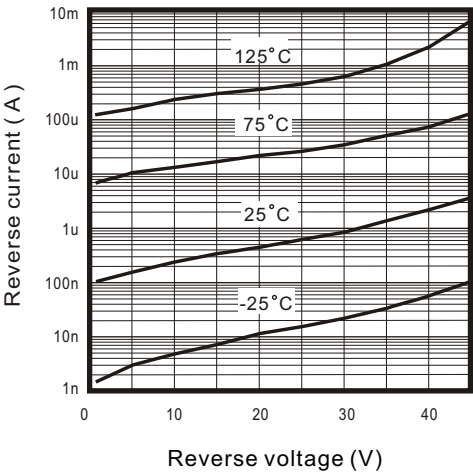


Fig. 3 - Capacitance between terminals characteristics

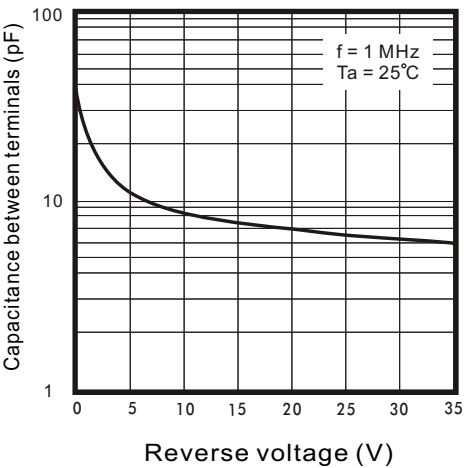


Fig. 4 - Current derating curve

