

CDBF0140L (Lead-free Device)

$I_o = 100 \text{ mA}$

$V_R = 40 \text{ Volts}$



Features

Low forward Voltage

Designed for mounting on small surface.

Extremely thin/leadless package.

Majority carrier conduction.

Mechanical data

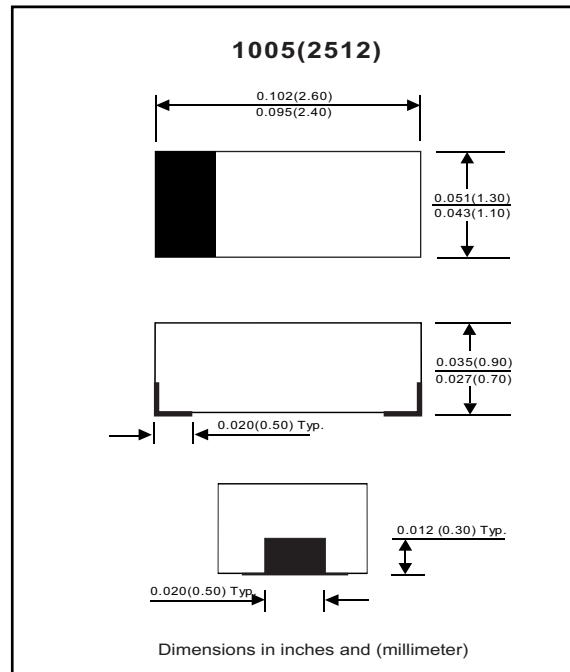
Case: 1005 (2512) Standard package , molded plastic.

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

Polarity: Indicated by cathode band.

Mounting position: Any.

Weight: 0.006 gram (approximately).



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		V_{RM}			45	V
Reverse voltage		V_R			40	V
Average forward rectified current		I_o			100	mA
Forward current , surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			1	A
Storage temperature		T_{STG}	-40		+125	$^\circ\text{C}$
Junction temperature		T_j	-40		+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	$I_F = 100 \text{ mA}$	V_F			0.55	V
	$I_F = 10 \text{ mA}$	V_F			0.34	V
Reverse current	$V_R = 10 \text{ V}$	I_R			30	uA
Capacitance between terminals	$f = 1\text{MHz}$, and 10 VDC reverse voltage	C_T		6		pF

RATING AND CHARACTERISTIC CURVES (CDBF0140L)

Fig. 1 - Forward characteristics

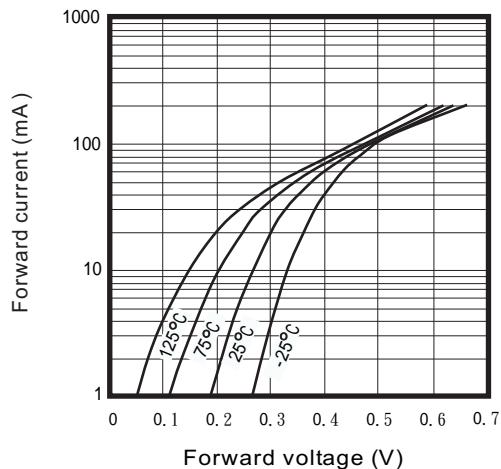


Fig. 2 - Reverse characteristics

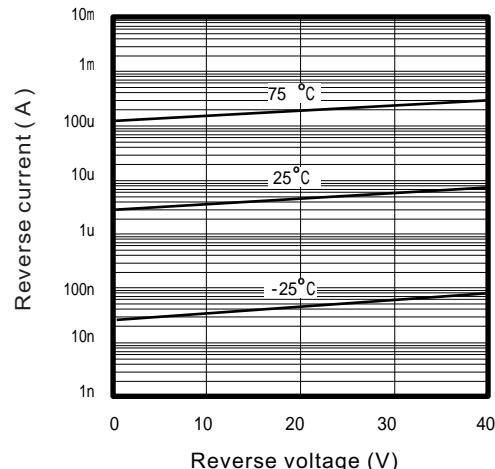


Fig. 3 - Capacitance between terminals characteristics

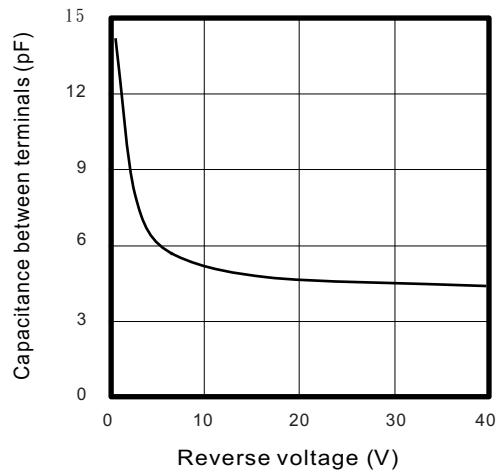


Fig. 4 - Current derating curve

