

## CDBF00340 (Lead-free Device)

$I_o = 30 \text{ mA}$   
 $V_R = 40 \text{ Volts}$

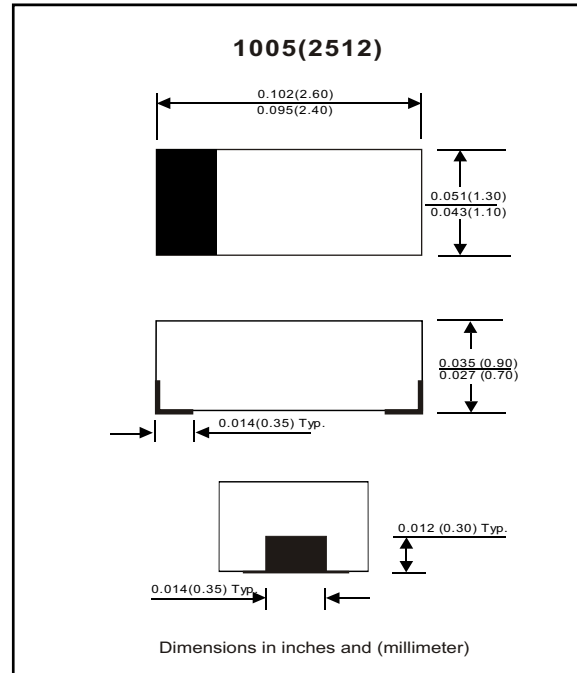


### Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Low capacitance.
- 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 TA = 25°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		$I_o$			30	mA
Forward current , surge peak	8.3 ms single half sine-wave superimposed on rate load ( JEDEC method )	$I_{FSM}$		500		mA
Power Dissipation		$P_d$			200	mW
Storage temperature		$T_{STG}$	-40		+125	°C
Junction temperature		$T_j$	-40		+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 1 \text{ mA DC}$	$V_F$			0.37	V
Reverse current	$V_R = 30 \text{ V}$ $V_R = 40 \text{ V}$	$I_R$			0.5 1	uA
Capacitance between terminals	$f = 1 \text{ MHz}$ , and 1 VDC reverse voltage	$C_T$		1.5		pF

## RATING AND CHARACTERISTIC CURVES (CDBF00340)

Fig. 1 - Forward characteristics

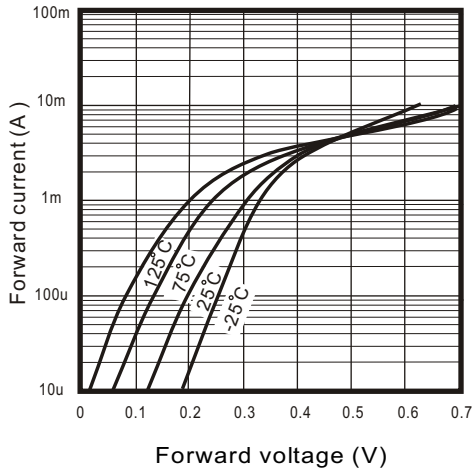


Fig. 2 - Reverse characteristics

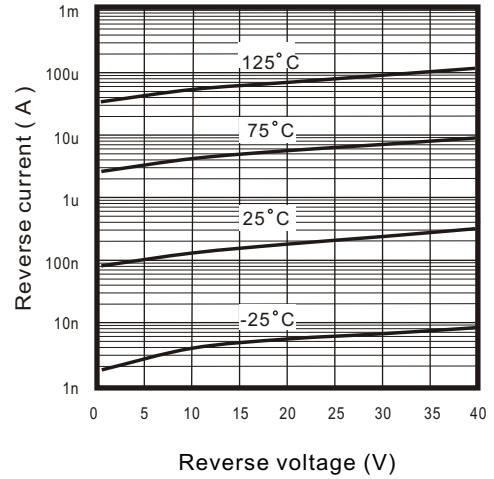


Fig. 3 - Capacitance between terminals characteristics

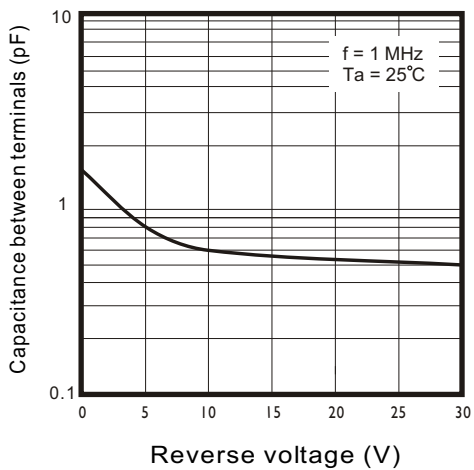


Fig. 4 - Current derating curve

