

# SMD Schottky Barrier Diode



## CDBF0130 (Lead-free Device)

$I_o = 100 \text{ mA}$   
 $V_R = 30 \text{ Volts}$

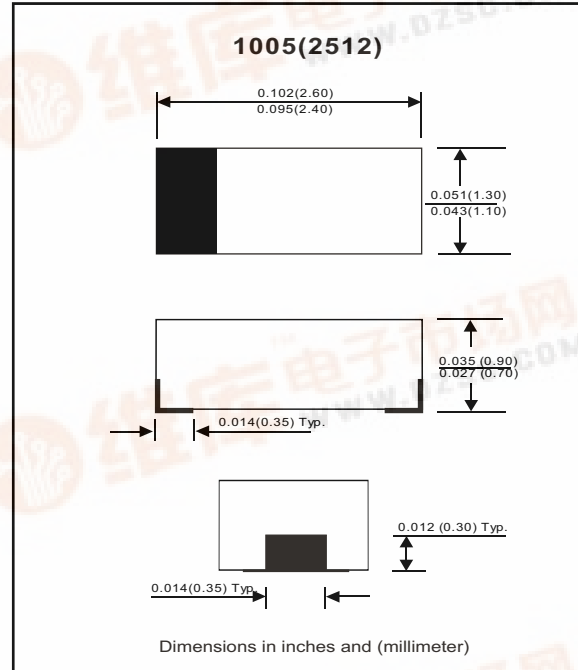


### Features

- Designed for mounting on small surface.
- Extremely thin/leadless package.
- Low drop-down voltage.
- 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		VRRM			35	V
Reverse voltage		VR			30	V
Average forward current		Io			100	mA
Forward current , surge peak	8.3 ms single half sine-wave superimposed on rate load ( JEDEC method )	IFSM		1000		mA
Power Dissipation		Pd			250	mW
Storage temperature		TSTG	-40		+125	°C
Junction temperature		Tj	-40		+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	IF = 100 mADC	VF			0.44	V
Reverse current	VR = 30 V	IR			30	uA
Capacitance between terminals	f = 1MHz, and 10 VDC reverse voltage	CT		9		pF



## RATING AND CHARACTERISTIC CURVES (CDBF0130)

Fig. 1 - Forward characteristics

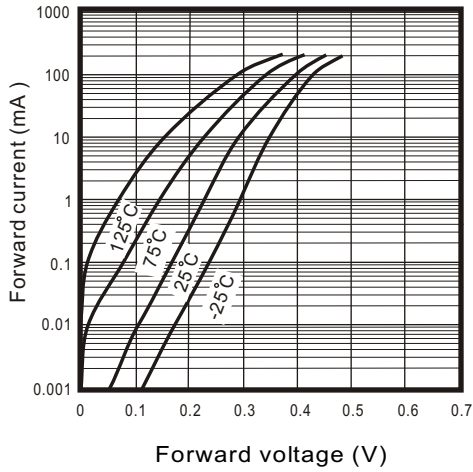


Fig. 2 - Reverse characteristics

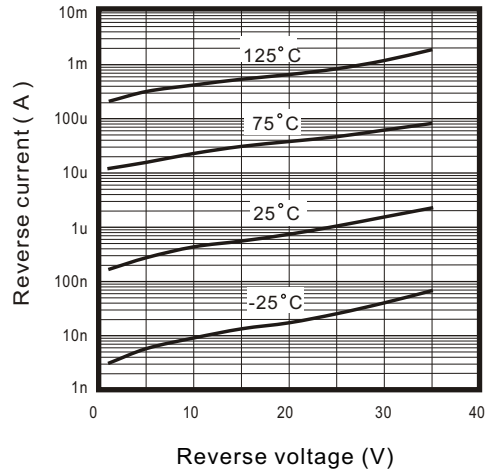


Fig. 3 - Capacitance between terminals characteristics

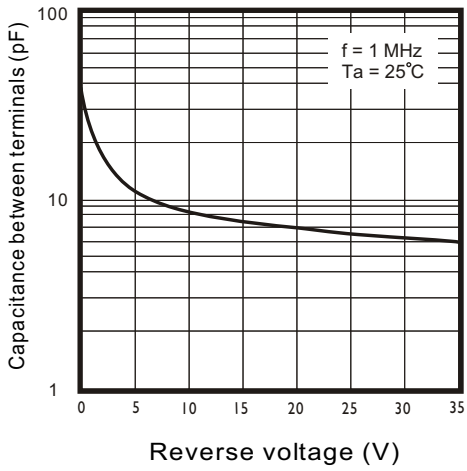


Fig. 4 - Current derating curve

