# **SMD Schottky Barrier Diode**

# **CDBF0140L** (Lead-free Device)

lo = 100 mA V<sub>R</sub> = 40 Volts

### Features

Low forward voltage.

Designed for mounting on small surface.

Extremely thin / leadless package.

Majority carrier conduction.

## Mechanical data

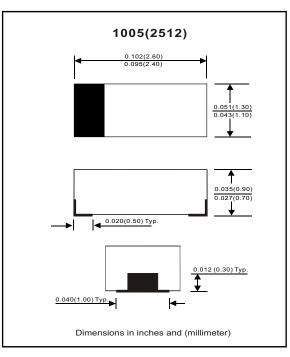
Case: 1005(2512) standard package, Molded plastic.

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	Тур	Max	Unit
Repetitive Peak reverse voltage		Vrrm			45	V
Reverse voltage		VR			40	V
Average forward rectified current		lo			100	mA
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	Ifsm			1	А
Storage temperature		Тѕтс	-40		+125	°C
Junction temperature		Tj			+125	°C

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

Parameter	Conditions	Symbol	Min	Тур	Max	Unit
Forward voltage	IF = 100mA IF = 10mA	VF			0.55 0.34	V
Reverse current	VR = 10V	Ir			30	uA
Capacitance between terminals	f = 1 MHz, and 10 VDC reverse voltage	Ст		6		pF





#### RATING AND CHARACTERISTIC CURVES (CDBF0140L)

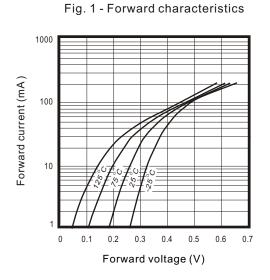
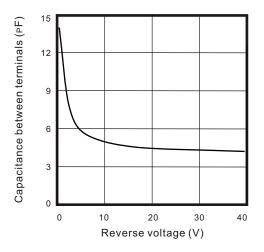


Fig. 3 - Capacitance between terminals characteristics



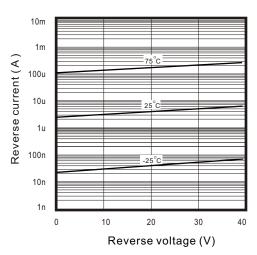
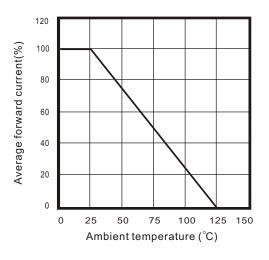


Fig.4 - Current derating curve



#### Fig. 2 - Reverse characteristics

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