

## CDBF0320/0330/0340

**I<sub>o</sub> = 350 mA**

**V<sub>R</sub> = 20 to 40 Volts**

**RoHS Device**

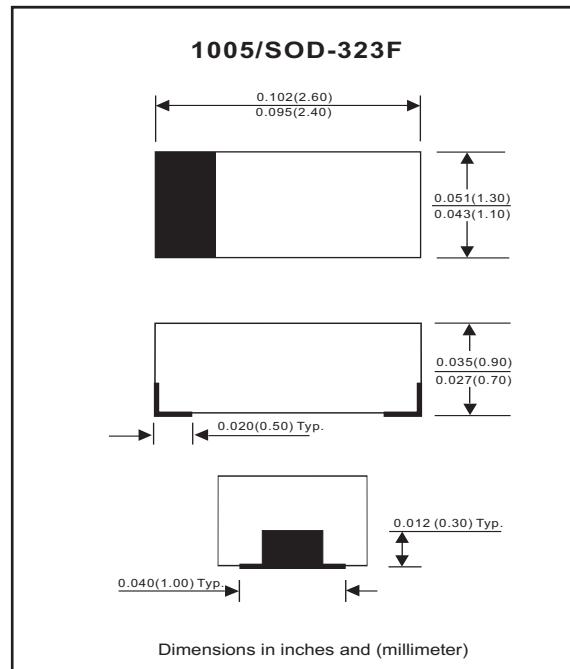


### Features

- Low forward voltage.
- Designed for mounting on small surface.
- Extremely thin / leadless package.
- Majority carrier conduction.

### Mechanical data

- Case: 1005/SOD-323F 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	Symbol	CDBF0320	CDBF0330	CDBF0340	Unit
Repetitive Peak reverse voltage Reverse voltage	V <sub>RRM</sub> V <sub>R</sub>	20	30	40	V
RMS reverse voltage	V <sub>R(RMS)</sub>	14	21	28	V
Average forward rectified current	I <sub>o</sub>		350		mA
Forward current, surge peak 8.3 ms single half sine-wave	I <sub>FSM</sub>		1.5		A
Power dissipation	P <sub>D</sub>		200		mW
Thermal resistance junction to ambient air	R <sub>θJA</sub>		500		°C/W
Storage temperature	T <sub>STG</sub>		-65 TO +125		°C
Junction temperature	T <sub>j</sub>		+125		°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse current CDBF0320 CDBF0330 CDBF0340	V <sub>R</sub> = 10V V <sub>R</sub> = 20V V <sub>R</sub> = 30V	I <sub>R</sub>			5 5 5	uA
Forward voltage	I <sub>F</sub> = 20mA I <sub>F</sub> = 200mA	V <sub>F</sub>			0.37 0.60	V
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C <sub>T</sub>		50		pF
Reverse recovery time	I <sub>F</sub> =I <sub>R</sub> =10mA,I <sub>rr</sub> =0.1xI <sub>R</sub> ,RL=100 ohm	T <sub>rr</sub>		6.4		nS

## RATING AND CHARACTERISTIC CURVES (CDBF0320/0330/0340)

Fig. 1 - Forward characteristics

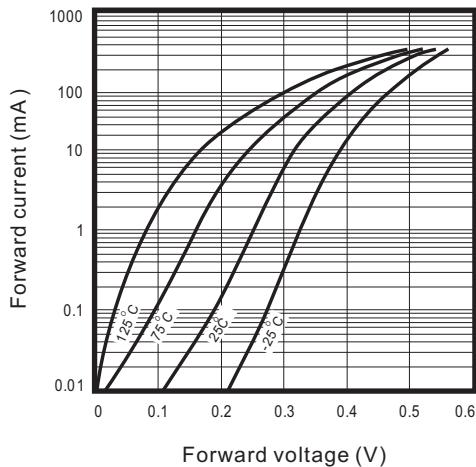


Fig. 2 - Reverse characteristics

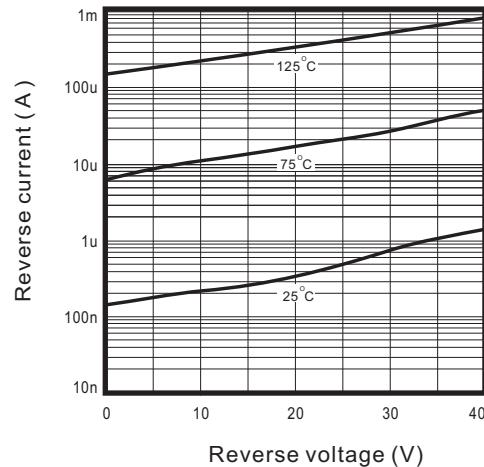


Fig.3 - Capacitance between terminals characteristics

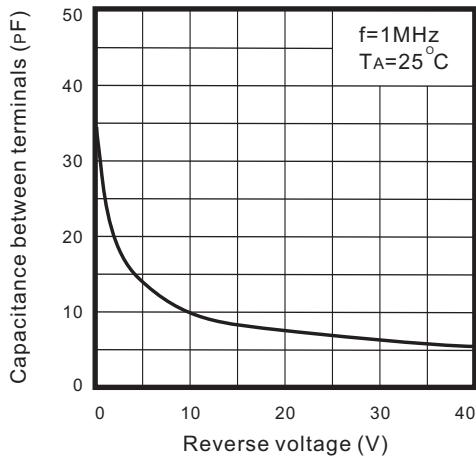


Fig.4 - Current derating curve

