

## CDBFR0520

**Io = 500 mA**

**VR = 20 Volts**

**RoHS Device**

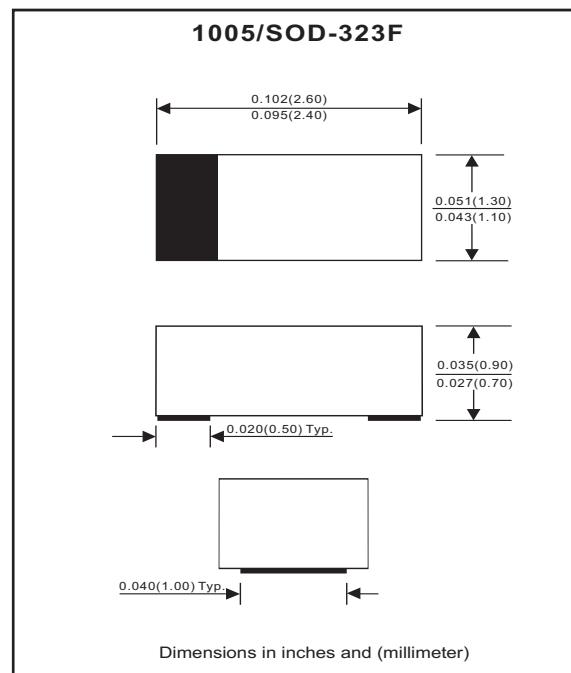


### Features

- 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	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		V <sub>RM</sub>			30	V
Reverse voltage		V <sub>R</sub>			20	V
Average forward rectified current		I <sub>O</sub>			0.5	A
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I <sub>FSM</sub>			2	A
Storage temperature		T <sub>STG</sub>	-40		+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
Forward voltage	I <sub>F</sub> = 100mA I <sub>F</sub> = 500mA	V <sub>F</sub>			0.36 0.47	V
Reverse current	V <sub>R</sub> = 20V	I <sub>R</sub>			100	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C <sub>T</sub>		100		pF

## RATING AND CHARACTERISTIC CURVES (CDBFR0520)

Fig. 1 - Forward characteristics

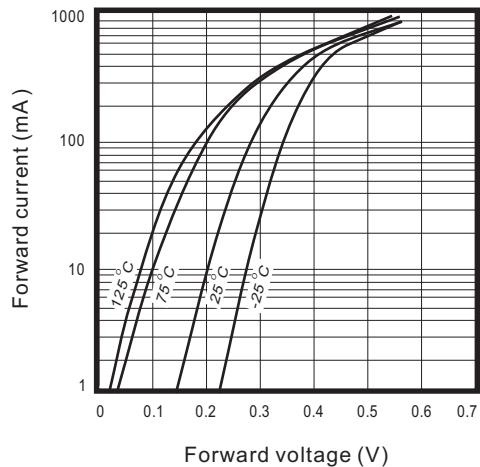


Fig. 2 - Reverse characteristics

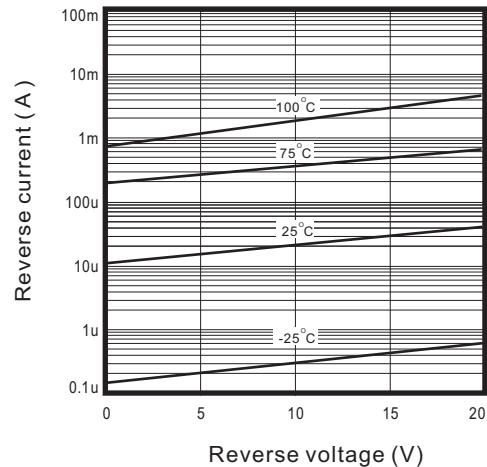


Fig. 3 - Capacitance between terminals characteristics

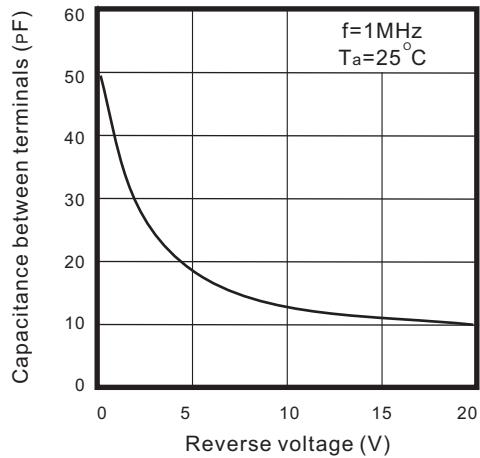


Fig.4 - Current derating curve

