

## CDBFR42/43

**I<sub>o</sub> = 200 mA**

**V<sub>R</sub> = 30 Volts**

**RoHS Device**

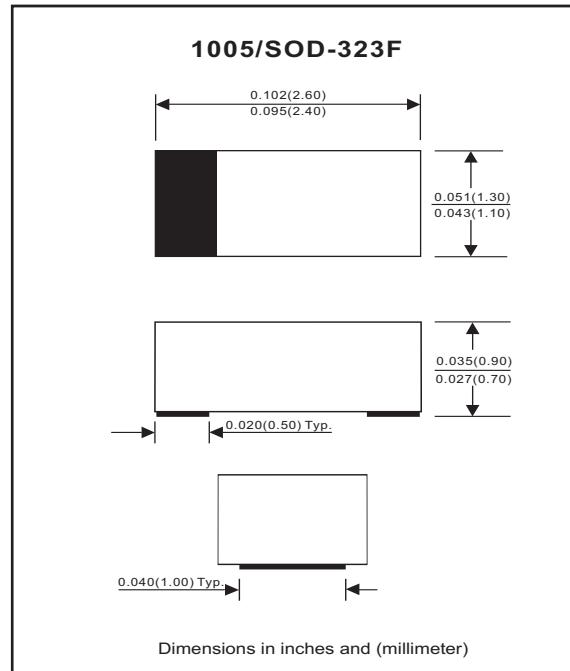


### Features

- 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>			30	V
RMS reverse voltage		V <sub>R</sub> (RMS)			21	V
Average forward rectified current		I <sub>o</sub>			200	mA
Repetitive peak forward current		I <sub>FRM</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>			4	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>	-55		+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 CDBFR42/43	I <sub>F</sub> = 200mA				1	V
CDBFR42	I <sub>F</sub> = 10mA				0.4	
CDBFR42	I <sub>F</sub> = 50mA				0.65	
CDBFR43	I <sub>F</sub> = 2mA				0.33	
CDBFR43	I <sub>F</sub> = 15mA				0.45	
Reverse current	V <sub>R</sub> = 25V	I <sub>R</sub>			0.5	uA
Capacitance between terminals	f = 1 MHz, and 1 VDC reverse voltage	C <sub>T</sub>			10	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>			5	nS

REV:A

## RATING AND CHARACTERISTIC CURVES (CDBFR42/43)

Fig. 1 - Forward characteristics

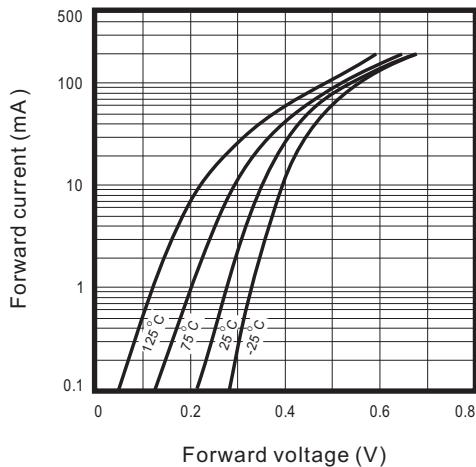


Fig. 2 - Reverse characteristics

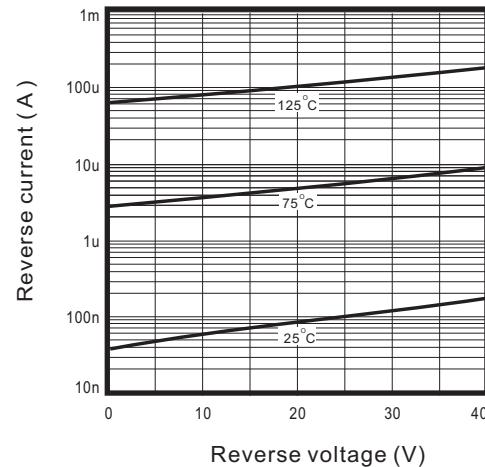


Fig.3 - Capacitance between terminals characteristics

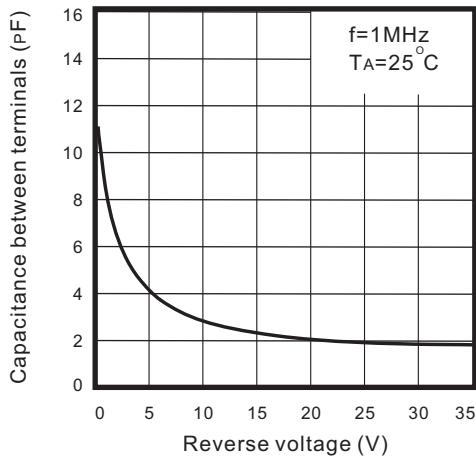


Fig.4 - Current derating curve

