

CDBFR0140R

$I_o = 100 \text{ mA}$
 $V_R = 40 \text{ Volts}$
 RoHS Device

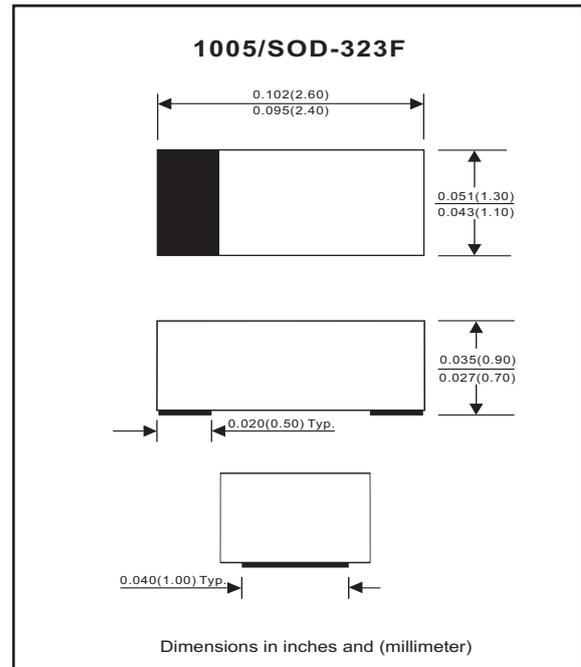


Features

- Low reverse current.
- 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
Repetitive Peak reverse voltage		V _{RRM}			45	V
Reverse voltage		V _R			40	V
Average forward rectified current		I _o			100	mA
Forward current, surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			1	A
Storage temperature		T _{STG}	-40		+125	°C
Junction temperature		T _j			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 10mA	V _F			0.45	V
Reverse current	V _R = 10V	I _R			1	uA
Capacitance between terminals	f = 1 MHz, and 10 VDC reverse voltage	C _T		6		pF

RATING AND CHARACTERISTIC CURVES (CDBFR0140R)

Fig. 1 - Forward characteristics

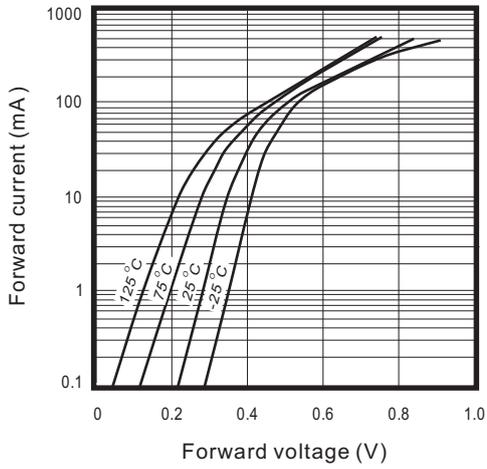


Fig. 2 - Reverse characteristics

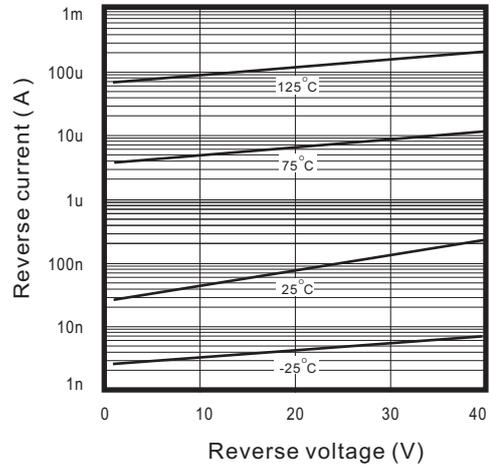


Fig. 3 - Capacitance between terminals characteristics

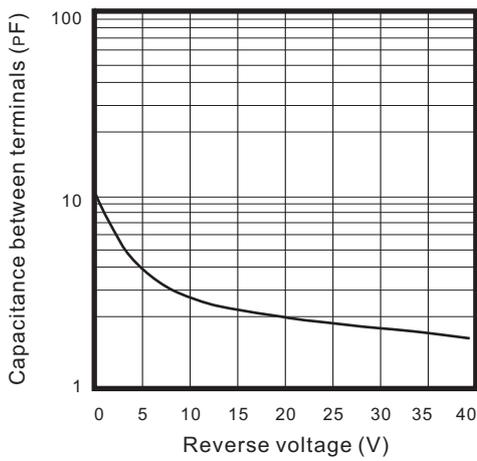


Fig. 4 - Current derating curve

