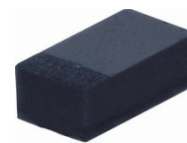


CDBFR0520

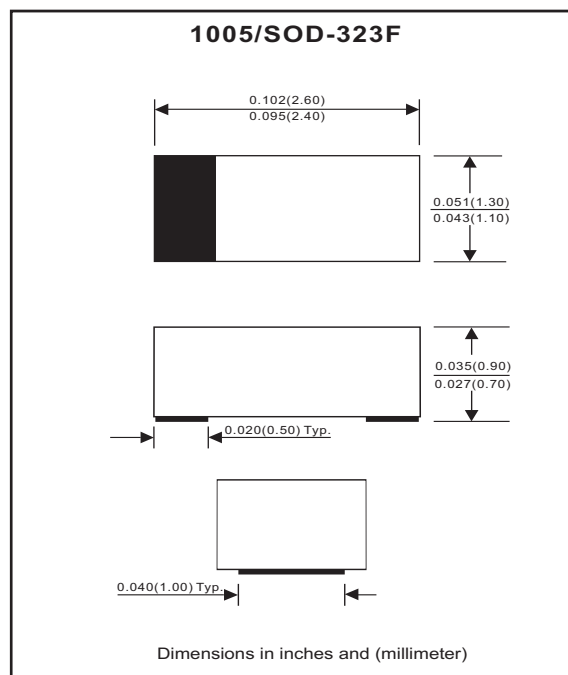
I_O = 500 mA**V_R = 20 Volts****RoHS Device**

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 T_A=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		V _{RM}			30	V
Reverse voltage		V _R			20	V
Average forward rectified current		I _O			0.5	A
Forward current, surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			2	A
Storage temperature		T _{STG}	-40		+125	°C
Junction temperature		T _J			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 100mA I _F = 500mA	V _F			0.36 0.47	V
Reverse current	V _R = 20V	I _R			100	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	C _T		100		pF

RATING AND CHARACTERISTIC CURVES (CDBFR0520)

Fig. 1 - Forward characteristics

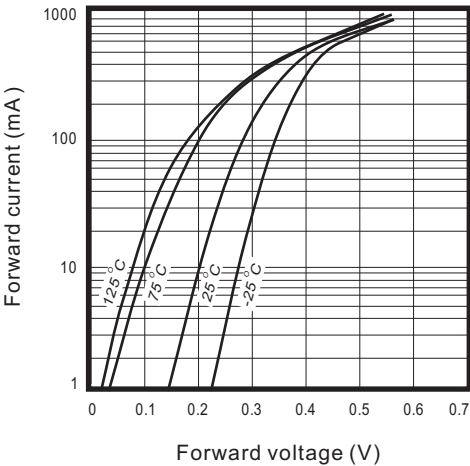


Fig. 2 - Reverse characteristics

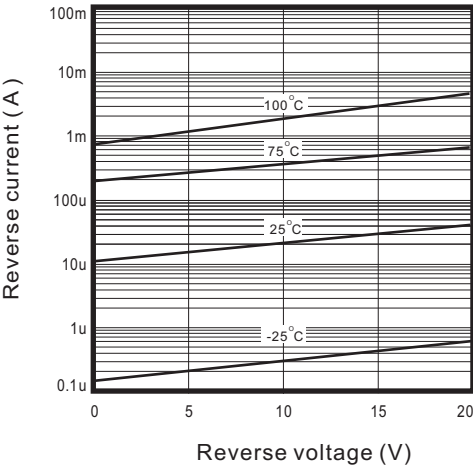


Fig. 3 - Capacitance between terminals characteristics

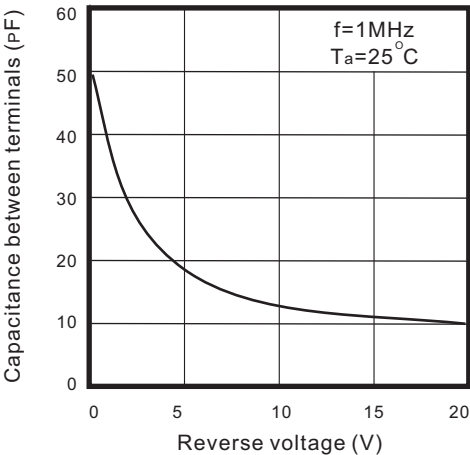
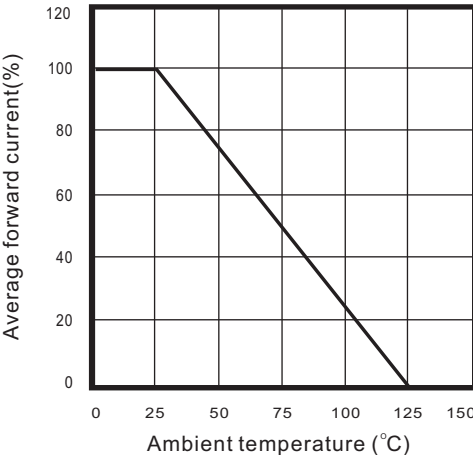


Fig.4 - Current derating curve



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Comchip Technology:](#)

[CDBFR0520A](#) [CDBFR0520A-HF](#) [CDBFR0520-HF](#) [CDBFR0520L-HF](#)