

CDBF0520L (Lead-free Device)

I_o = 500 mA

V_R = 20 Volts



Features

Low forward Voltage

Designed for mounting on small surface.

Extremely thin/leadless package.

Majority carrier conduction.

Mechanical data

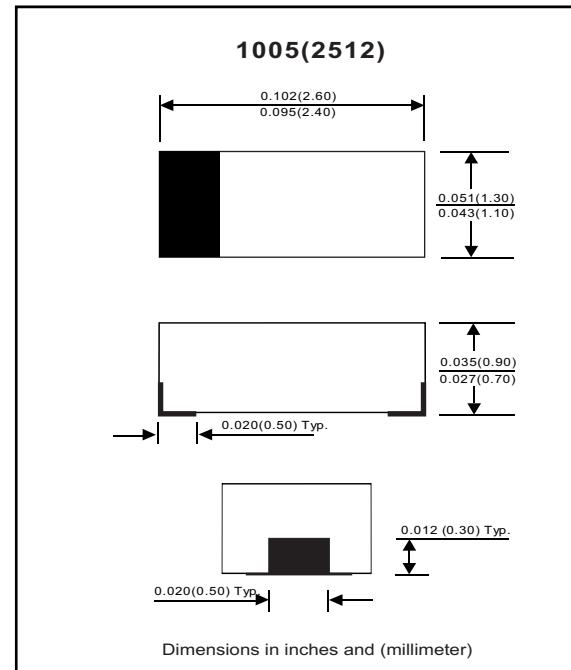
Case: SOD-323F (2512) Standard package , molded plastic.

Terminals: Gold plated, solderable per MIL-STD-750, method 2026.

Polarity: Indicated by cathode band.

Mounting position: Any.

Weight: 0.006 gram (approximately).



Maximum Rating (at T_A = 25 °C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Repetitive peak reverse voltage		V _{RRM}			20	V
Reverse voltage		V _R			20	V
Average forward rectified current		I _o			0.5	A
Forward current , surge peak	8.3 ms singlehalf sine-wave superimposed on rate load(JEDEC method)	I _{FSM}			5.5	A
Storage temperature		T _{STG}	-40		+125	°C
Junction temperature		T _j	-40		+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	I _F = 100mA @T _a =25 °C I _F = 500mA @T _a =25 °C I _F = 100mA @T _a =100 °C I _F = 500mA @T _a =100 °C	V _F			300 385 220 330	mV mV mV mV
Reverse current	V _R = 10V @T _a =25 °C V _R = 20V @T _a =25 °C	I _R			75 250	uA uA
Capacitance between terminals	f = 1MHz, and 0 VDC reverse voltage	C _T			170	pF
Reverse recovery time	I _F =I _R =10mA,I _{rr} = 0.1 X I _R ,R _L =100 ohm	T _{rr}		22		ns

RATING AND CHARACTERISTIC CURVES (CDBF0520L)

Fig. 1 - Forward characteristics

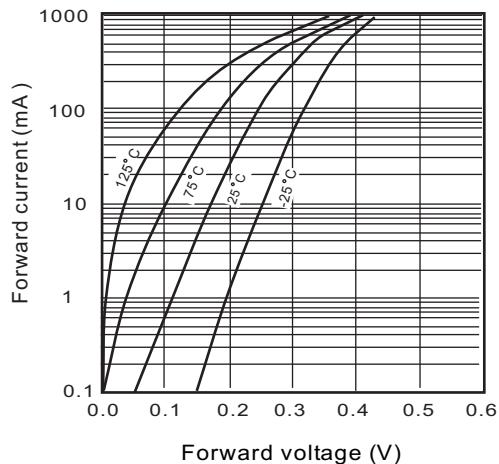


Fig. 2 - Reverse characteristics

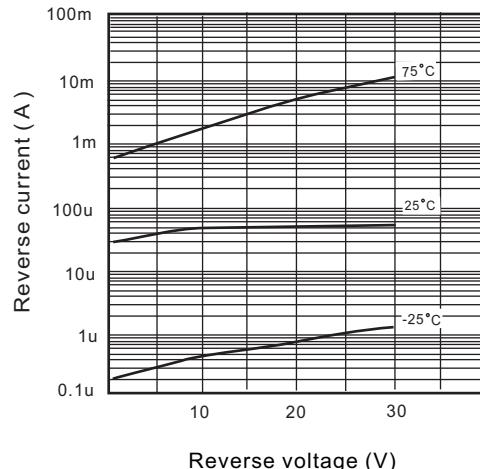


Fig. 3 - Capacitance between terminals characteristics

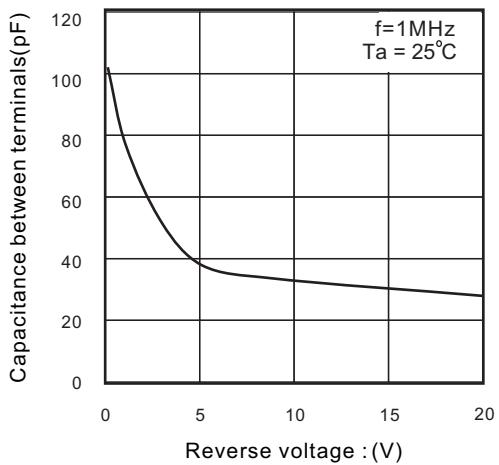


Fig. 4 - Current derating curve

