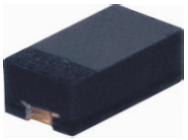
SMD Schottky Barrier Diode

CDBK0520L

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

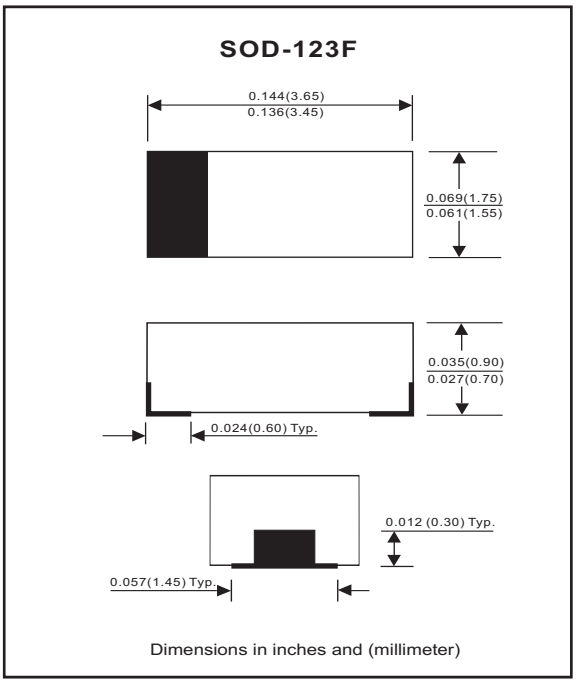
-Case: SOD-123F standard package, molded plastic.

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

-Polarity: Indicated by cathode band.

-Mounting position: Any

-Weight: 0.011 gram(approx.).



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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		VRM			20	V
Reverse voltage		VR			20	V
Average forward rectified current		Io			0.5	A
Forward current,surge peak	8.3 ms single half sine-wave superimposed on rate load (JEDEC method)	IFSM			5.5	A
Storage temperature		TSTG	-40		+125	°C
Junction temperature		Tj			+125	°C

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

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	IF = 100mA @Ta = 25 °C IF = 500mA @Ta = 25 °C IF = 100mA @Ta = 100 °C IF = 500mA @Ta = 100 °C	VF			300 385 220 330	mV
Reverse current	VR = 10V @Ta = 25 °C VR = 20V @Ta = 25 °C	IR			75 250	uA
Capacitance between terminals	f = 1 MHz, and 0 VDC reverse voltage	CT			170	pF
Reverse recovery time	IF = IR = 10mA, Irr x IR, RL = 100ohm	Trr		22		ns

RATING AND CHARACTERISTIC CURVES (CDBK0520L)

Fig. 1 - Forward characteristics

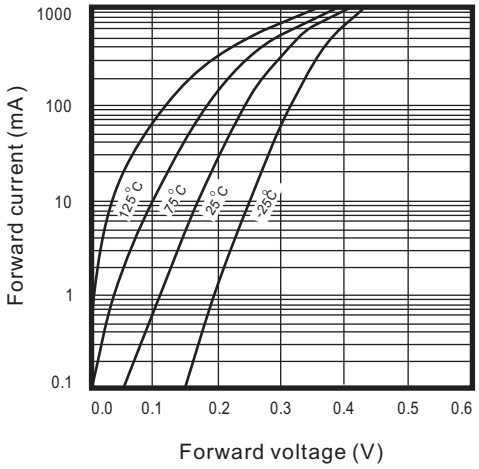


Fig. 2 - Reverse characteristics

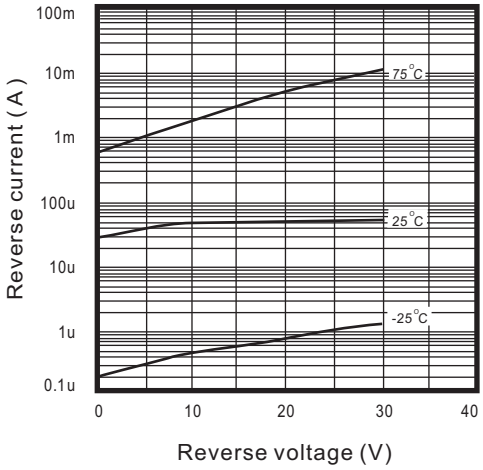


Fig. 3 - Capacitance between terminals characteristics

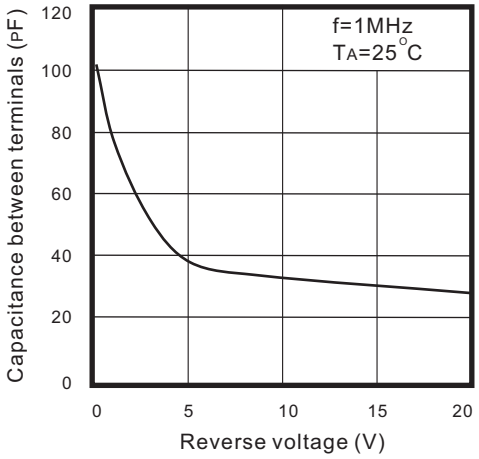


Fig.4 - Current derating curve