



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CDBK0520L

$I_o = 500 \text{ mA}$
 $V_R = 20 \text{ Volts}$
 RoHS Device

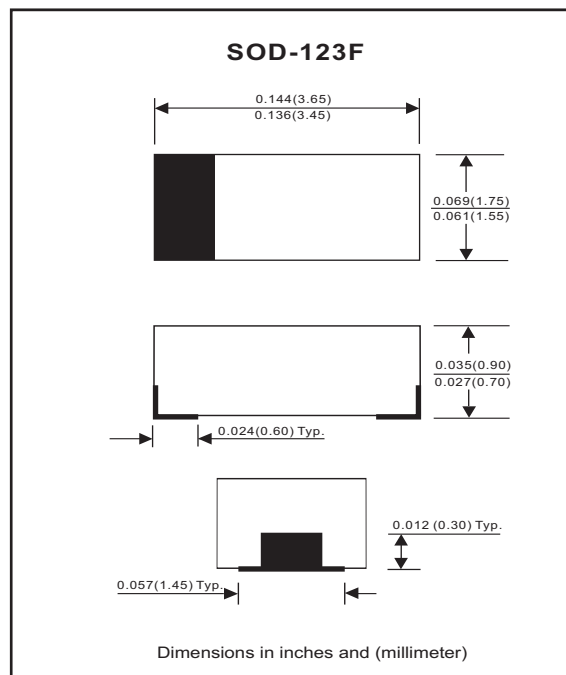


Features

- 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 $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Peak reverse voltage		V_{RM}			20	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}			5.5	A
Storage temperature		T_{STG}	-40		+125	$^\circ\text{C}$
Junction temperature		T_j			+125	$^\circ\text{C}$

Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F = 100\text{mA}$ @ $T_a = 25^\circ\text{C}$ $I_F = 500\text{mA}$ @ $T_a = 25^\circ\text{C}$ $I_F = 100\text{mA}$ @ $T_a = 100^\circ\text{C}$ $I_F = 500\text{mA}$ @ $T_a = 100^\circ\text{C}$	V_F			300 385 220 330	mV
Reverse current	$V_R = 10\text{V}$ @ $T_a = 25^\circ\text{C}$ $V_R = 20\text{V}$ @ $T_a = 25^\circ\text{C}$	I_R			75 250	μA
Capacitance between terminals	$f = 1 \text{ MHz}$, and 0 VDC reverse voltage	C_T			170	pF
Reverse recovery time	$I_F = I_R = 10\text{mA}$, $I_{rr} \times I_R$, $R_L = 100\text{ohm}$	T_{rr}		22		ns

RATING AND CHARACTERISTIC CURVES (CDBK0520L)

Fig. 1 - Forward characteristics

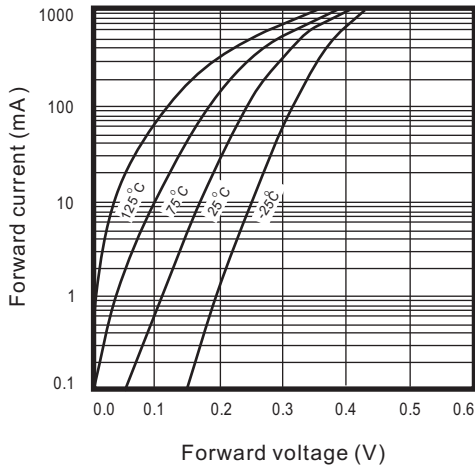


Fig. 2 - Reverse characteristics

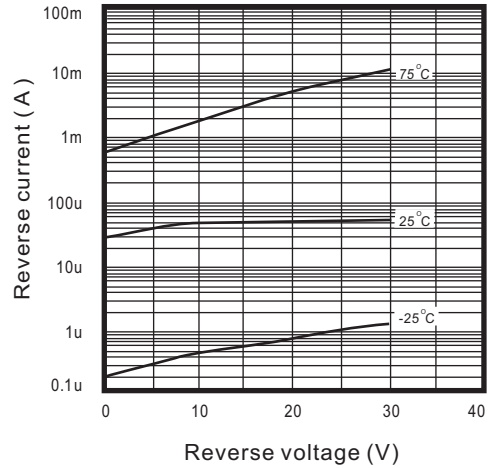


Fig. 3 - Capacitance between terminals characteristics

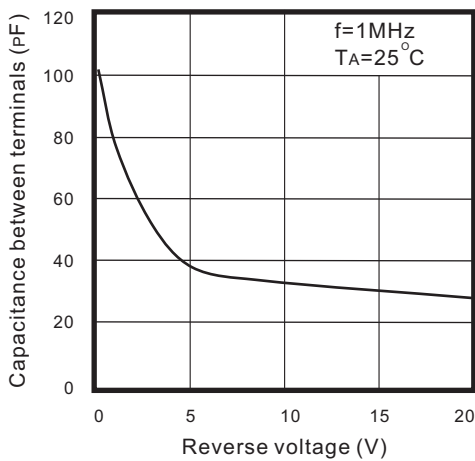


Fig. 4 - Current derating curve

