



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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SB10-03A2/SB10-03A3

30V, 1.0A Rectifier

Applications

- High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time (t_{rr} max=30ns).
- Low switching noise.
- Average rectified current (I_o =1.0A).

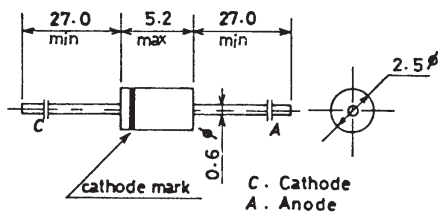
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

				unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
		Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}	35
Average Rectified Current	I_o	SB10-03A2	1.0	A
		50Hz, resistive load, sine wave, $T_a=50^\circ\text{C}$ (L=8mm, 10×10mm ² print land)		
		SB10-03A3	1.0	A
		50Hz, resistive load, sine wave, $T_a=46^\circ\text{C}$ (L=3mm, 5×5mm ² print land)		
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	40	A
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-40 to +125	$^\circ\text{C}$

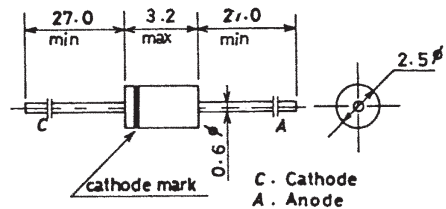
Electrical Characteristics at $T_a=25^\circ\text{C}$

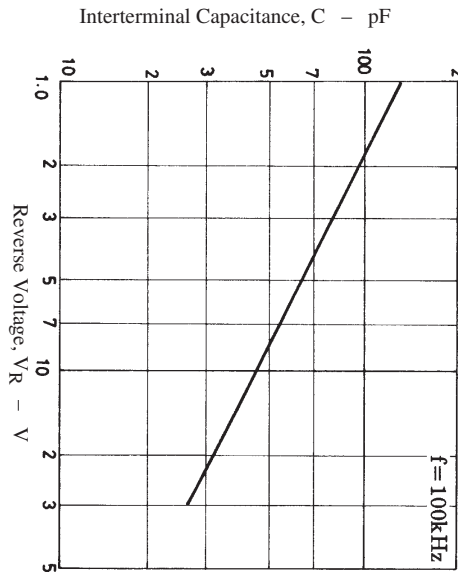
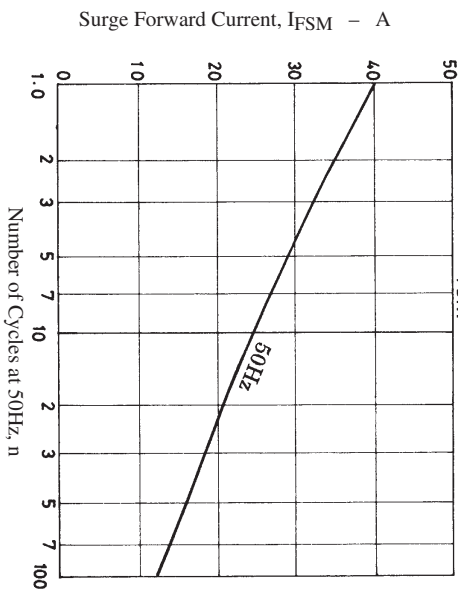
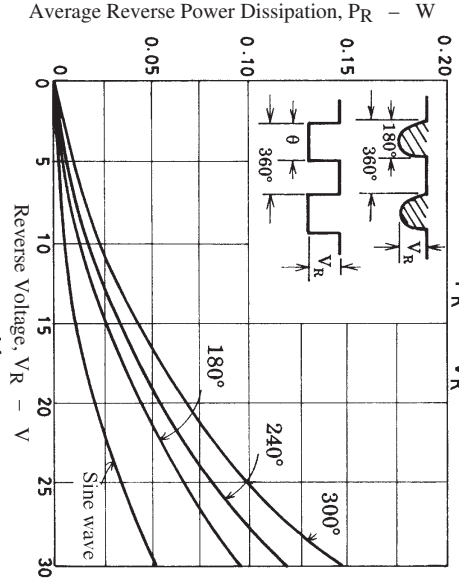
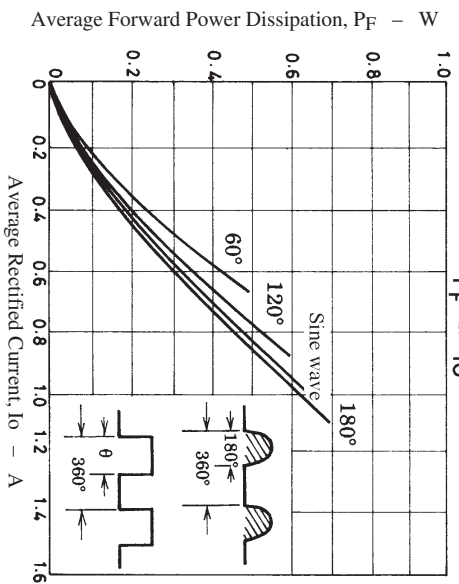
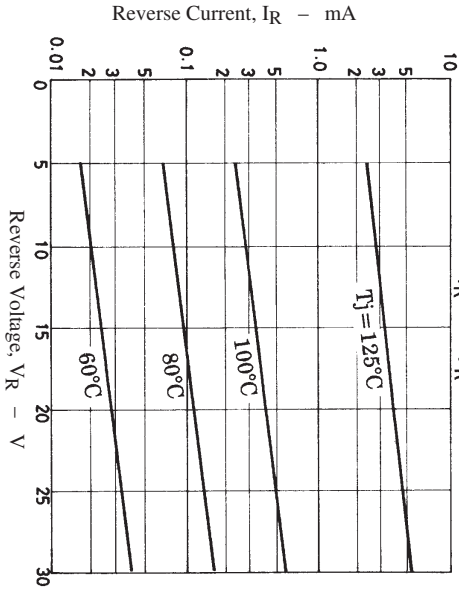
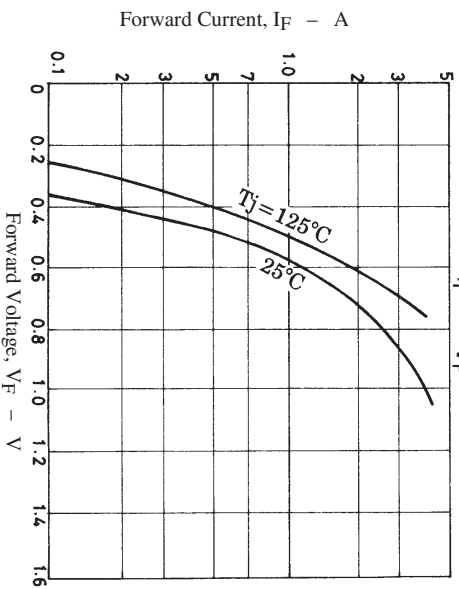
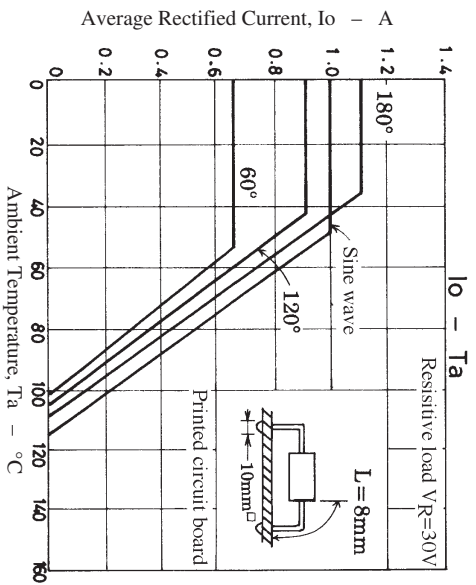
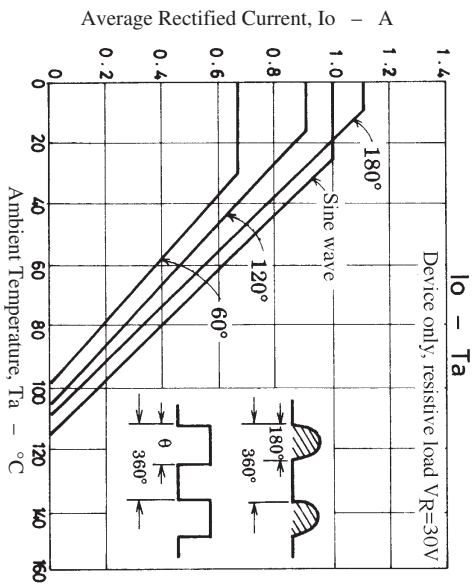
			min	typ	max	unit
Forward Voltage	V_F	$I_F=1.0\text{A}$			0.55	V
Reverse Current	I_R	$V_R=30\text{V}$			1.0	mA
Reverse Recovery Time	t_{rr}	$I_{FM}=1\text{A}$, $-di/dt=50\text{A}/\mu\text{s}$			30	ns
Thermal Resistance (Junction-Ambient)	$R_{th(j-a)}$	No fin, device only			140	$^\circ\text{C}/\text{W}$

[SB10-03A2]
Package Dimensions 1208
(unit : mm)



[SB10-03A3]
Package Dimensions 1209
(unit : mm)





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