



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).

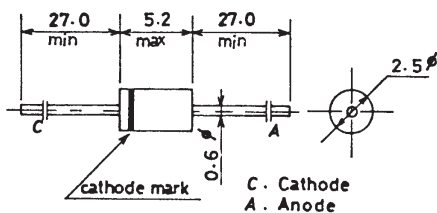
Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

			unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
	Nonrepetitive Peak Reverse	V_{RSM}	35 V
Surge Voltage			
Average Rectified Current	I_o	SB10-03A2	1.0 A
		50Hz, resistive load, sine wave, $T_a=50^\circ\text{C}$ ($L=8\text{mm}$, $10 \times 10\text{mm}^2$ print land)	1.0 A
		SB10-03A3	1.0 A
		50Hz, resistive load, sine wave, $T_a=46^\circ\text{C}$ ($L=3\text{mm}$, $5 \times 5\text{mm}^2$ 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 $^\circ\text{C}$

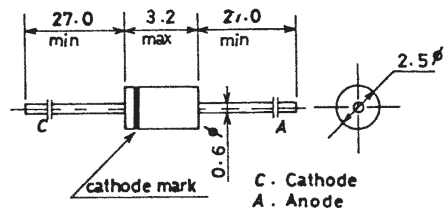
Electrical Characteristics at $T_a=25^\circ\text{C}$

			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	$^\circ\text{C}/\text{W}$

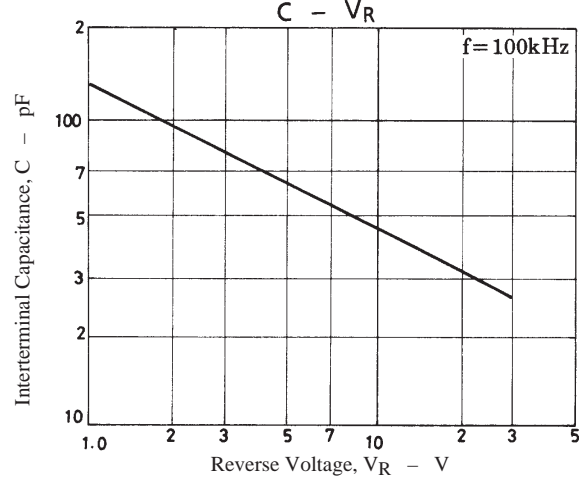
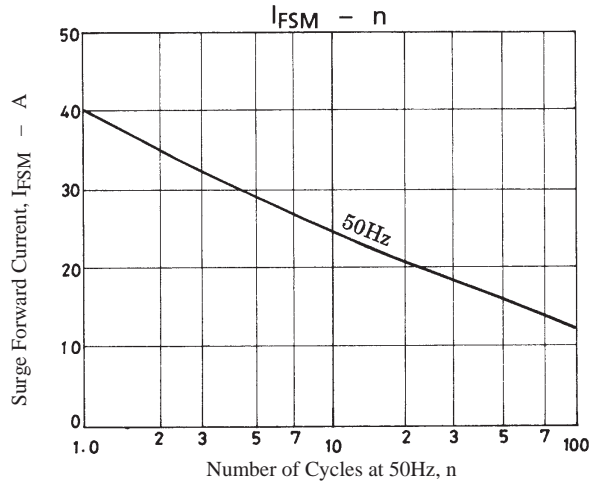
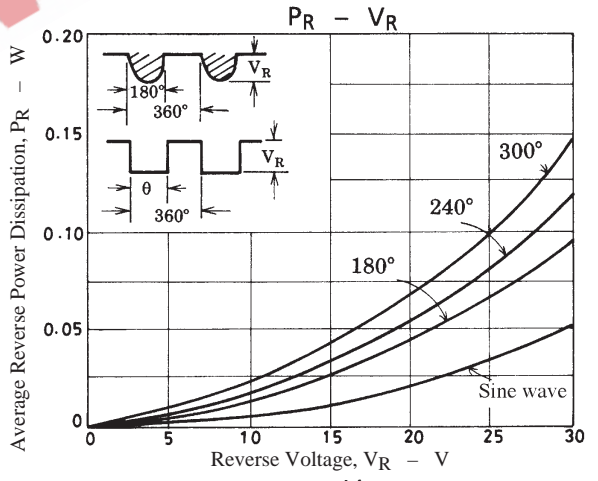
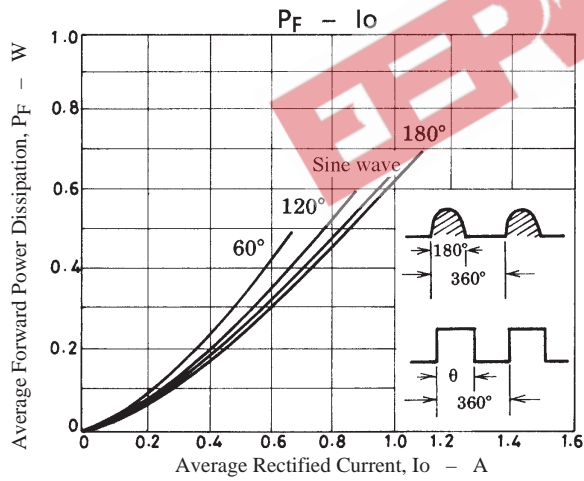
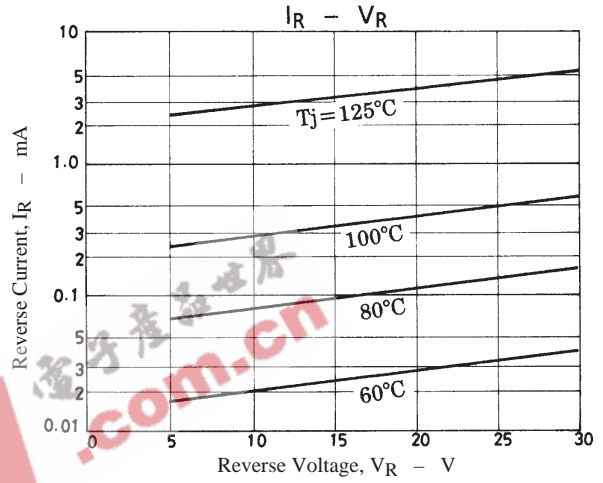
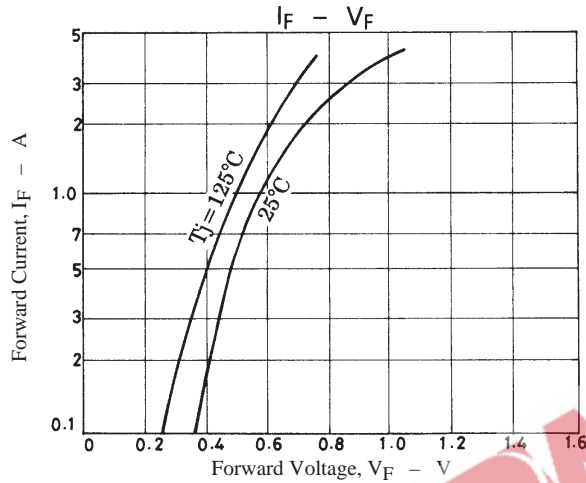
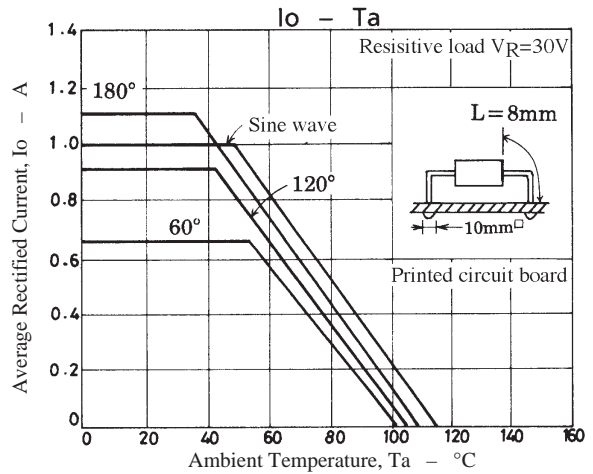
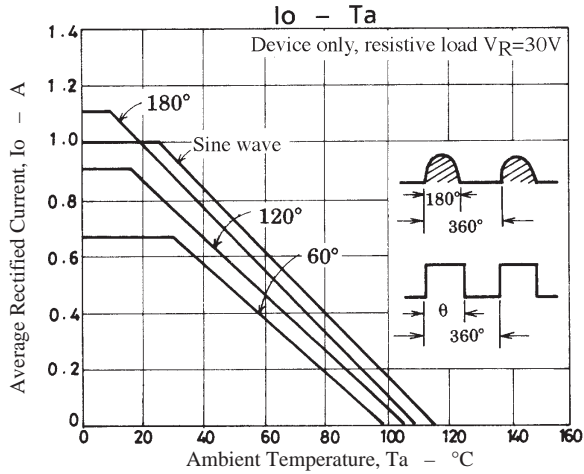
[SB10-03A2]
Package Dimensions 1208
(unit : mm)



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



SB10-03A2/SB10-03A3



EEPW 电子產品世界
.com.cn

- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of October, 1997. Specifications and information herein are subject to change without notice.