

SB10-03A2/SB10-03A3

30V, 1.0A Rectifier

Applications

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

Features

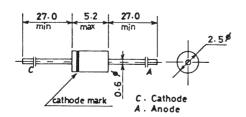
- \bullet Low forward voltage (V_F max=0.55V).
- Fast reverse recovery time (t_{rr} max=30ns).
- Low switching noise.
- Average rectified current (Io=1.0A).

Absolute Maximum Ratings at Ta=25°C					unit	
Repetitive Peak Reverse Voltage	V_{RRM}			30	V	
Nonrepetitive Peak Reverse	V_{RSM}			35	V	
Surge Voltage						
Average Rectified Current	Io	SB10-03A2		1.0	A	
		50Hz, resistive load, sine wave, Ta=50°C				
		(L=8mm, 10×10mm ² print land)			
		SB10-03A3		1.0	A	
		50Hz, resistive load, sine wave, Ta=46°C				
		(L=3mm, 5×5mm ² print land)				
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle		40	A	
Junction Temperature	Tj			125	°C	
Storage Temperature	Tstg		-40 to +125		°C	
Electrical Characteristics at Ta=25°C			min	typ	max	unit
Forward Voltage	V_{F}	$I_{\text{F}}=1.0A$		• •	0.55	V
Reverse Current	$I_{\mathbb{R}}$	$V_R=30V$			1.0	mA
Reverse Recovery Time	t _{rr}	$I_{FM}=1A$, $-di/dt=50A/\mu s$			30	ns
Thermal Resistance	Rth(j-a)	No fin, device only			140	°C/W
(Junction-Ambient)						

[SB10-03A2]

Package Dimensions 1208

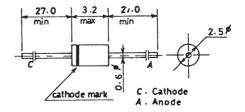
(unit: mm)

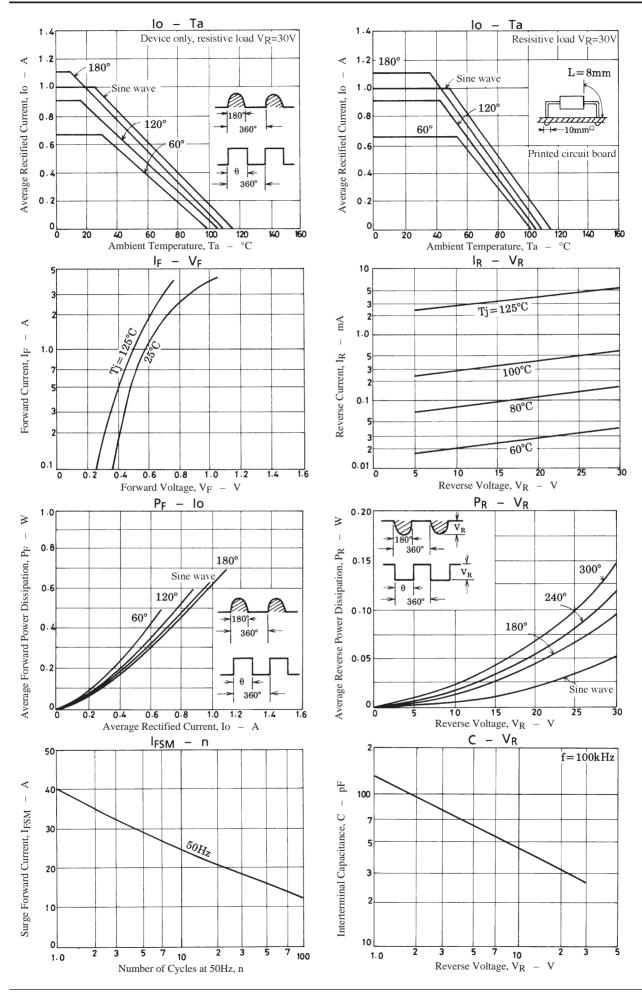


[SB10-03A3]

Package Dimensions 1209

(unit: mm)





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