

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 (Io=1.0A).

Absolute	Maximum	Ratings	at Ta=25°C
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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

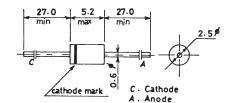
Electrical Characteristics at Ta=25°C

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Forward Voltage	V_{F}	$I_{F}=1.0A$			0.55	V
Reverse Current	I_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

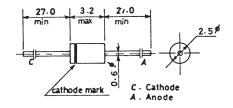
(unit: mm)



[SB10-03A3]

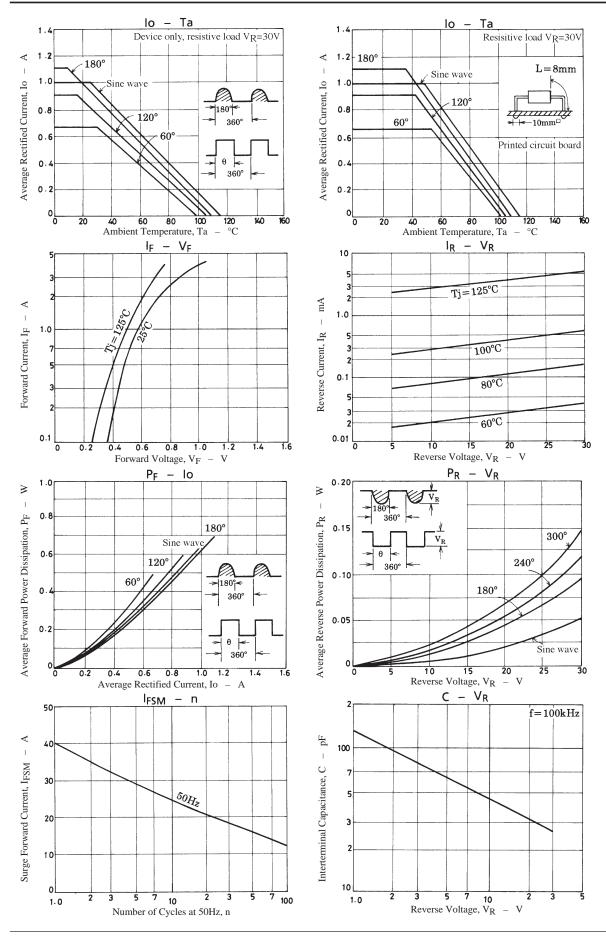
Package Dimensions 1209

(unit: mm)



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