SB10-03A2, SB10-03A3

Schottky Rectifier, 30V, 1A



http://onsemi.com

Applications

· High frequency rectification (switching regulators, converters, choppers)

Features

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

Specifications

Absolute Maximum Ratings at Ta=25°C

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Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Rectified Current	lo	SB10-03A2 50Hz,resistive load,sine wave, Ta=50°C	1.0	А
		(L=8mm,10×10mm ² print land)	1.0	
		SB10-03A3 50Hz,resistive load,sine wave, Ta=46°C	1.0	А
		(L=3mm,5×5mm² print land)	1.0	
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	40	Α
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-40 to +125	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

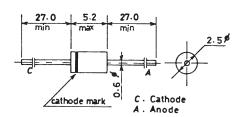
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Forward Voltage	VF	IF=1.0A			0.55	V
Reverse Current	IR	V _R =30V			1.0	mA
Reverse Recovery Time	t _{rr}	I _F =1A, -di/dt=50A/μs			30	ns
Thermal Resistance(Junction-Ambient)	Rth(j-a)	No fin,device only			140	°C/W

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

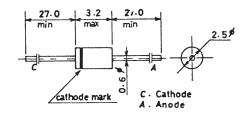
Package Dimensions

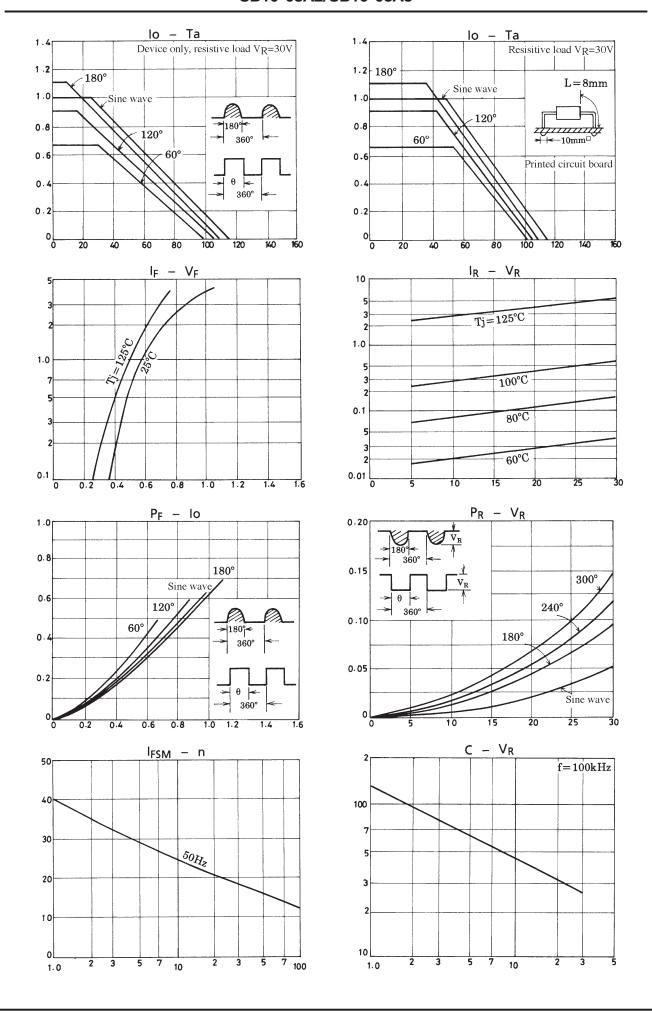
unit: mm (typ) SB10-03A2



Package Dimensions

unit : mm (typ) SB10-03A3





SB10-03A2/SB10-03A3

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