Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

ON Semiconductor SB10-05A2

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of ON Semiconductor: Excellent Integrated System Limited

Datasheet of SB10-05A2 - DIODE SCHOTTKY 50V 1A DO41

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Ordering number: EN2931A



SB10-05A2, SB10-05A3

Schottky Barrier Diode

50V, 1.0A Rectifier

Applications

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

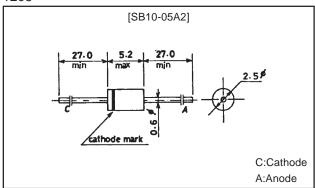
Features

- \cdot Low forward voltage (V_F max=0.58V).
- · Fast reverse recovery time (trr max=30ns).
- · Low switching noise.
- · Average rectified current ($I_{\Omega}=1.0A$).

Package Dimensions

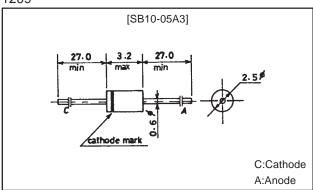
unit:mm

1208



unit:mm

1209



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions		Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}			50	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}			55	V
Average Rectified Current	Ю	SB10-05A2	50Hz, resistive load, sine wave, Ta=33°C (L=8mm, 10×10mm² print land)	1.0	Α
		SB10-05A3	50Hz, resistive load, sine wave, Ta=29°C (L=3mm, 5×5mm² print land)	1.0	А
Surge Forward Current	I _{FSM}	50Hz sine wave, 1 cycle		25	А
Junction Temperature	Tj			125	°C
Storage Temperature	Tstg			-40 to +125	°C

Electrical Characteristics at Ta = 25°C

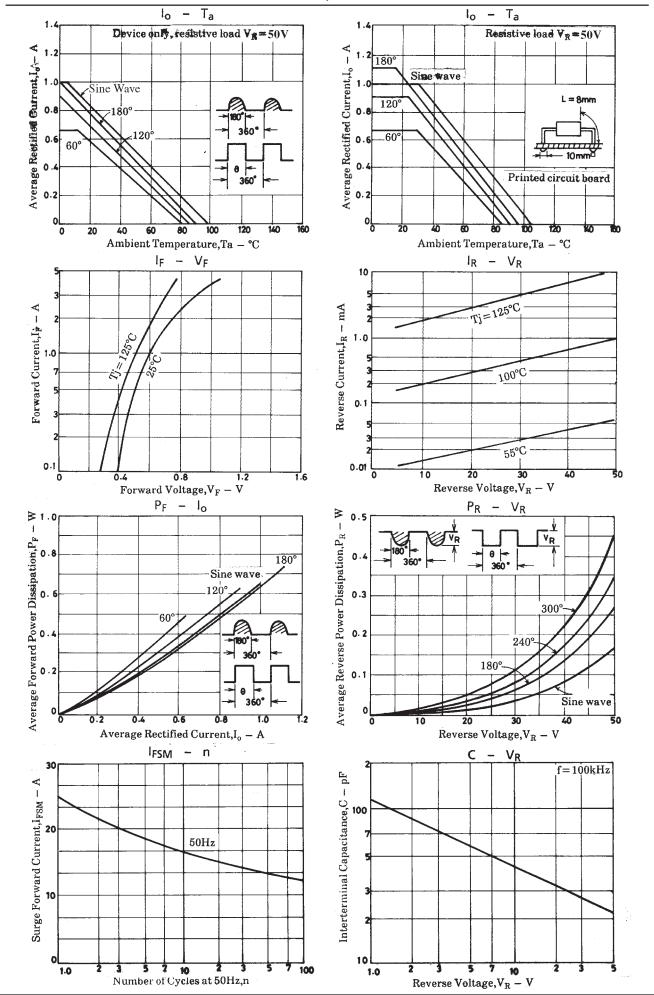
Parameter		Conditons	Ratings			Unit
	Symbol		min	typ	max	Onne
Forward Voltage	٧F	I _F =1.0A			0.58	V
Reverse Current	I _R	V _R =50V			1.0	mA
Reverse Recovery Time	trr	I _{FM} =1A, -dI _F /dt=50A/μs			30	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)	No fin, device only			140	°C/W

Distributor of ON Semiconductor: Excellent Integrated System Limited

Datasheet of SB10-05A2 - DIODE SCHOTTKY 50V 1A DO41

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

SB10-05A2, SB10-05A3





Distributor of ON Semiconductor: Excellent Integrated System Limited

Datasheet of SB10-05A2 - DIODE SCHOTTKY 50V 1A DO41

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

SB10-05A2, SB10-05A3

- 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 responsibilty 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 April, 1998. Specifications and information herein are subject to change without notice.