KODENSHI AUK

Schottky Barrier Rectifier

30V, 3A SCHOTTKY BARRIER RECTIFIER

Features

- Low forward voltage drop
- Low power loss and High efficiency
- Low leakage current
- High surge capability
- Full lead (Pb)-free and RoHS compliant device

Applications

- High efficiency SMPS
- Output rectification
- High frequency switching
- Freewheeling
- DC-DC converter systems

Description

The SDB330 is suited for Switch Mode Power Supply and high frequency DC to DC converters. This device is especially intended for use in low voltage, high frequency inverters, freewheeling and polarity protection applications.

Ordering Information

Device	Marking Code	Package	Packaging
SDB330	3A30	SOD-106	Tape & Reel

Marking Information



3A30 = Specific Device Code
YWW = Year & Week Code Marking
. Y = Year Code
. WW = Week Code
= Color band denote cathode



Absolute Maximum Ratings	GRating at 25℃	ambient temperature unless otherwise specified	d.)
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Characteristic	Symbol	Value	Unit
Peak reverse voltage	V _{RM}	30	V
Reverse voltage	V _R	30	V
Forward current	I _F	3	А
Peak surge forward current (Non-repetitive 60Hz sine wave)	I _{FSM}	30	А
Junction temperature	TJ	150	°C
Storage temperature range	T _{stg}	-55~150	°C

Electrical Characteristics (Rating at 25° C ambient temperature unless otherwise specified.)

Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Forward voltage	V _F ¹⁾	I _F =3A	-	0.35	0.40	V
Reverse current	I _R	V _R =30V	-	-	5	mA
Total capacitance	C _T	V _R =10V, f=1MH _Z	-	160	-	pF
Thermal resistance	R _{th(j-a)}	Junction to ambient ²⁾	-	-	76	°C/W

* 1) Pulse test : t_P≤380 μ s, Duty cycle≤2%

* 2) Device mounted on glass epoxy PCB (recommanderable minimum solder land)

Electrical Characteristic Curves



Package Outline Dimension







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		NOTE		
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	NUTE
A	1.25	1.30	1.35	
A1	0.00	—	0.10	
A2	1.05	1.10	1.15	
b	1.35	1.42	1.49	
С	0.17	0.22	0.27	
D	2.50	2.60	2.70	
E	4.60	4.80	5.00	
E1	3.90	4.00	4.10	
L	0.79	0.94	1.09	
L1	0.30	0.40	0.50	
Θ	4°	_	10°	

Recommend PCB Solder Land Dimension (Unit: mm)



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