Zibo Seno Electronic Engineering Co., Ltd.



SFB810 – SFB860 🐏 🖌

8.0A GLASS PASSIVATED SUPERFAST RECTIFIER

TO-263 (D²PAK)

Features

- Glass Passivated Die Construction
- Super-Fast Switching
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

- Case: TO-263(D²PAK), Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Mounting Position: Any
- Lead Free: For RoHS / Lead Free Version



TO-263 (D ² PAK)								
Unit:mm								
DIM	MIN	MAX						
А	10.44	10.84						
В	9.81	10.21						
С	1.44	1.84						
D	8.80	9.20						
Е	4.46	4.66						
F	2.44	2.64						
G	0.61	1.01						
Н	0.70	1.30						
Ι	4.27	4.87						
J	1.07	1.47						
K	0°	8°						
L	2.10	2.50						
М	0.30	0.46						
0	0	0.25						

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SFB 810	SFB 820	SFB 830	SFB 840	SFB 850	SFB 860	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	100	200	300	400	500	600	V
RMS Reverse Voltage	VR(RMS)	70	140	210	280	350	420	V
Average Rectified Output Current @T _c = 105°C	lo	8.0						А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	90					A	
Forward Voltage @I _F = 8.0A	Vfm	1.0 1.3 1.7		.7	V			
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	10 400						μA
Reverse Recovery Time (Note 1)	trr	35						nS
Typical Junction Capacitance (Note 2)	Cj		8	0			50	pF
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150			°C			

Note: 1. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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