Zibo Seno Electronic Engineering Co., Ltd.



SFB510 - SFB560





5.0A GLASS PASSIVATED SUPERFAST RECTIFIER

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

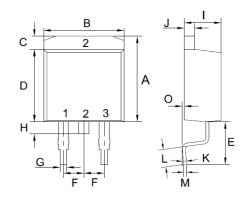
• Terminals: Plated Leads Solderable per

MIL-STD-202, Method 208 Polarity: See Diagram

Mounting Position: Any

Lead Free: For RoHS / Lead Free Version

TO-263 (D²PAK)



TO-263 (D ² PAK)								
Unit:mm								
DIM	MIN	MAX						
A	10.44	10.84						
В	9.81	10.21						
С	1.44	1.84						
D	8.80	9. 20						
E	4.46	4.66						
F	2.44	2.64						
G	0.61	1.01						
Н	0.70	1.30						
I	4. 27	4.87						
J	1.07	1.47						
K	0°	8°						
L	2. 10	2.50						
M	0.30	0.46						
0	0	0. 25						

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

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

Characteristic	Symbol	SFB 510	SFB 520	SFB 530	SFB 540	SFB 550	SFB 560	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	100	200	300	400	500	600	٧
RMS Reverse Voltage	VR(RMS)	70	140	210	280	350	420	V
Average Rectified Output Current @T _C = 100°C	lo	5.0					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	90					А	
Forward Voltage @I _F = 5.0A	VFM	1.0 1.3 1.7		.7	٧			
	lкм	10 400					μΑ	
Reverse Recovery Time (Note 1)	trr	35						nS
Typical Junction Capacitance (Note 2)	Cj		8	30		,	50	pF
Operating and Storage Temperature Range	Тj, Тsтg	-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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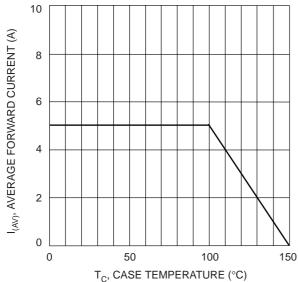
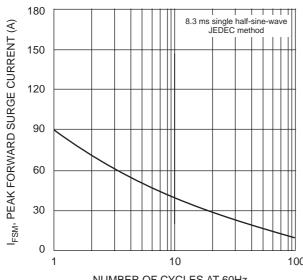
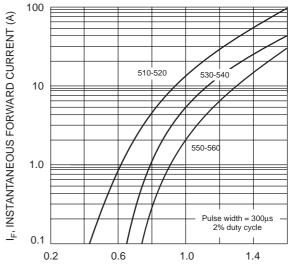


Fig. 1 Forward Current Derating Curve



NUMBER OF CYCLES AT 60Hz Fig. 3 Max Non-Repetitive Surge Current



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics

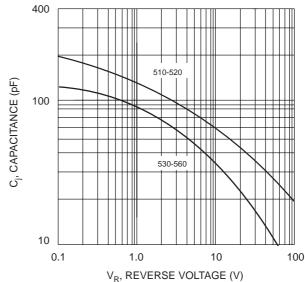


Fig. 4 Typical Junction Capacitance