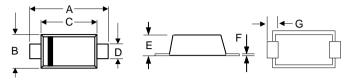


ES3ABF THRU ES3JBF

3.0 Amp. Surface Mount Glass Passivated Super Fast Rectifiers

Features

- * For surface mounted application
- * Low Profile Package
- * Glass Passivated Chip Junction
- * High Temp Soldering: 260°C for 10seconds at Terminals
- * Superfast Recovery Times









SMBF								
DIM.	INC	HES	MM					
	MIN	MAX	MIN	MAX				
Α	0.201	0.217	5.10	5.50				
В	0.138	0.146	3.5	3.7				
С	0.165	0.173	4.2	4.4				
D	0.075	0.087	1.90	2.20				
Е	0.043	0.051	1.10	1.30				
F	0.007	0.010	0.18	0.26				
G	0.031	0.047	0.80	1.20				

Mechanical Data

* Case: SMBF Molded plastic

* Terminals: Solderable per MIL-STD-750, Method 2026

* Polarity: Indicated by cathode band

Maximum Ratings and Electrical Characteristics (Ta=25℃ unless otherwise noted)

Type Number	Symbols	ES3ABF	ES3BBF	ES3CBF	ES3DBF	ES3GBF	ES3JBF	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	105	140	280	420	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	150	200	400	600	V
Maximum Average Forward Rectified Current $I_{F(AV)}$ 3						Α		
Peak Forward Surge Current, 8.3ms single half sine-wave	I _{FSM}	100					Α	
Maximum Instantaneous Forward Voltage at 3.0A	V_{F}	1.0			1.25	1.7	V	
Maximum D.C Reverse Current @ T _J =25℃ at Rated D.C Blocking Voltage @ T _J =125℃	I _R	5 100					μΑ	
Maximum Reverse Recovery Time (Note1)	Trr	35				nS		
Typical Junction Capacitance(Note2)	CJ	35				pF		
Typical thermal resistance (Note3)	R өја Rөјс	45 15			°C/W			
Operating and Storage Temperature Range	ating and Storage Temperature Range T_J/T_{STG} -55 to +150				$^{\circ}$			

Note 1: Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

Note 2: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 3: P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

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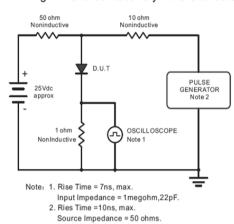


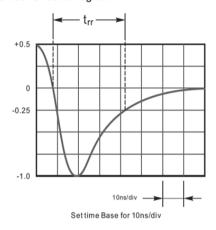
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3.0 Amp. Surface Mount Glass Passivated Super Fast Rectifiers

Ratings and Characteristic Curves

Fig. 1 Reverse Recovery Time Characteristic And Test Circuit Diagram







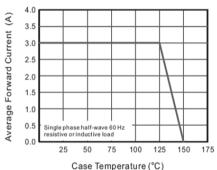


Fig.3 Typical Reverse Characteristics

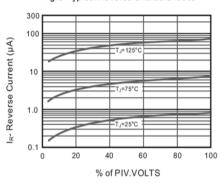


Fig.4 Typical Forward Characteristics

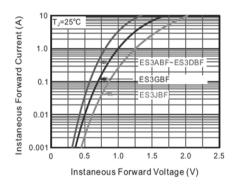


Fig.5 Typical Junction Capacitance

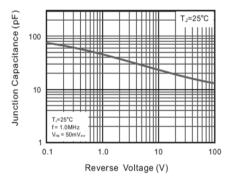
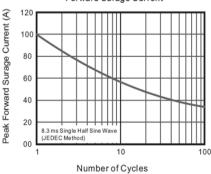


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



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ES3ABF THRU ES3JBF

3.0 Amp. Surface Mount Glass Passivated Super Fast Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
ES3ABF THRU ES3JBF	SMBF	R50	5000pcs/Reel

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