

US3ABF THRU US3MBF-HAF

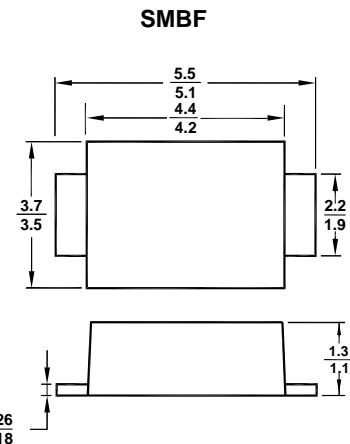
Surface Mount Fast Recovery Rectifier
Reverse Voltage - 50 to 1000 V
Forward Current - 3 A

Features

- Glass Passivated Chip Junction
- For surface mounted applications
- Low profile package
- Fast reverse recovery time
- Halogen and Antimony Free(HAF), RoHS compliant

Mechanical Data

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



All Dimensions in mm

Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	US3ABF	US3BBF	US3DBF	US3GBF	US3JBF	US3KBF	US3MBF	Units			
Marking	U3AB	U3BB	U3DB	U3GB	U3JB	U3KB	U3MB	-				
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V			
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V			
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V			
Maximum Average Forward Rectified Current at T _a = 65°C	I _{F(AV)}	3						A				
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100						A				
Maximum Forward Voltage at 3 A	V _F	1		1.3	1.6			V				
Maximum Reverse Current T _a = 25°C at Rated DC Blocking Voltage T _a = 125°C	I _R	5 100						µA				
Typical Junction Capacitance at V _R = 4 V, f = 1 MHz	C _j	75						pF				
Maximum Reverse Recovery Time at I _F = 0.5 A, I _R = 1 A, I _{rr} = 0.25 A	t _{rr}	50			75			ns				
Typical Thermal Resistance ¹⁾	R _{θJA} R _{θJL}	55 16						°C/W				
Operating Junction and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150						°C				

¹⁾ P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm²) copper pad areas.

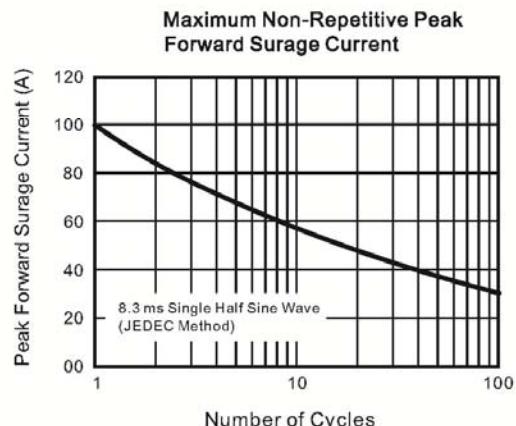
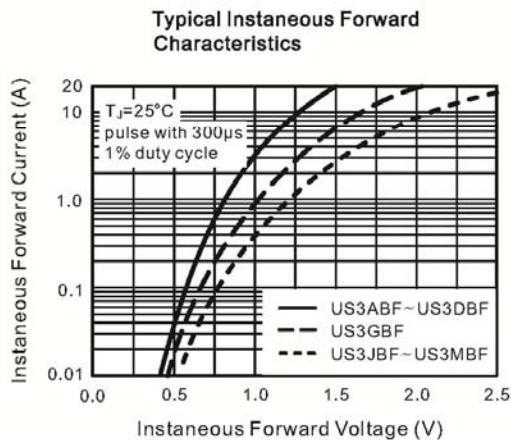
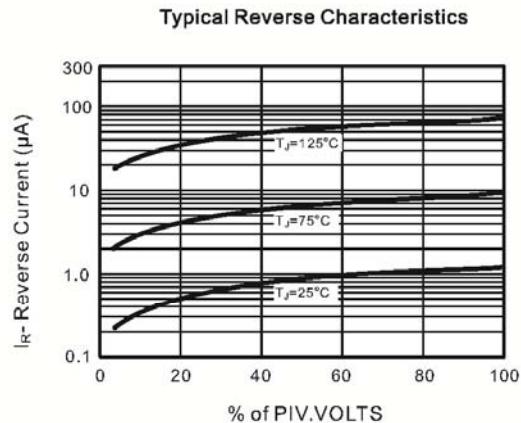
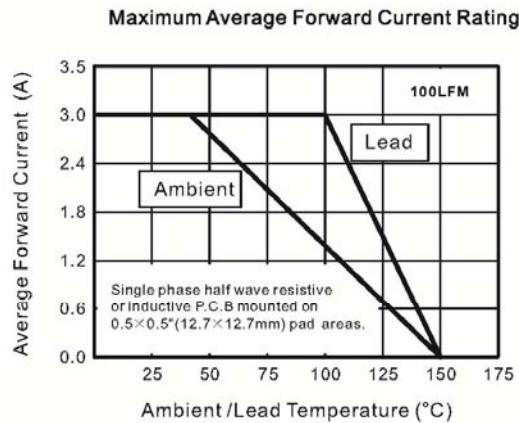
TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000
 Certificate No. 121505007 Certificate No. 50114012 Certificate No. 05131506006 Certificate No. IECQ-MQ007-KU02

Dated: 07/09/2016 JD Rev: 01

US3ABF THRU US3MBF-HAF



TOP DYNAMIC



ISO14001 : 2004 ISO 9001 : 2008 OHSAS 18001 : 2007 IECQ QC 080000
Certificate No. 121505007 Certificate No. 50114012 Certificate No. 05131506006 Certificate No. ECOH MOODY 002

Dated: 07/09/2016 JD Rev: 01