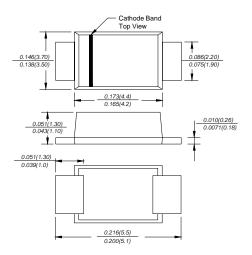


US2ABF THRU US2MBF

SURFACE MOUNT ULTRAFAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

SMBF



Dimensions in inches and (millimeters)

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Superfast reverse recovery time
- ◆ Lead free in comply with EU RoHS 2011/65/EU diretives

MECHANICAL DATA

Case: JEDEC SMBF molded plastic body Terminals: leads solderable per MIL-STD-750,

Method 2026

Mounting Position: Any Weight:57mg/0.002oz

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	US2ABF	US2BBF	US2DBF	US2GBF	US2JBF	US2KBF	US2MBF	UNITS
Marking code		U2AB	U2BB	U2DB	U2GB	U2JB	U2KB	U2MB	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=65℃	l(AV)				2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on	IFSM	50							Amps
rated load (JEDEC Method)									·
Maximum instantaneous forward voltage at 2.0A	VF		1.0		1.3		1.6		Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	5.0 100.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr	50 75					ns		
Typical junction capacitance (NOTE 2)	Сı	60							pF
Typical thermal resistance (NOTE 3)	Røja Røjl	60 20							°C/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

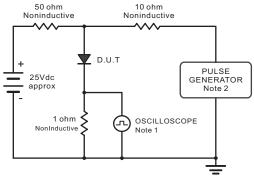
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.5x0.5"(12.7x12.7mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES US2ABF THRU US2MBF

Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram



Note: 1. Rise Time = 7ns, max. Input Impedance = 1megohm,22pF.

2. Ries Time =10ns, max. Source Impedance = 50 ohms.

+0.5 0 -0.25

Set time Base for 10ns/div

Fig.2 Maximum Average Forward Current Rating

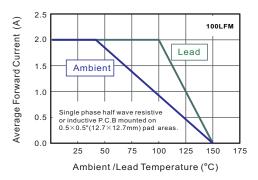


Fig.3 Typical Reverse Characteristics

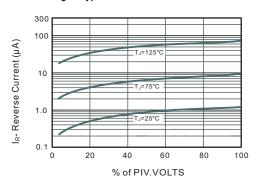


Fig.3 Typical Instaneous Forward Characteristics

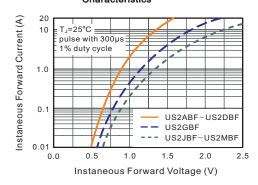
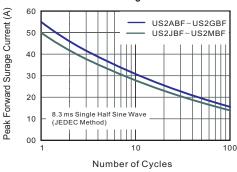


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

