

PUS2ABF~PUS2MBF

Surface Mount Ultrafast Recovery Rectifier

Feature

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Superfast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

Feature

- Case: SMBF
- > Terminals: Solderable per MIL-STD-750, Method 2026.
- Approx. Weight: 57mg / 0.002oz

Maximum Ratings and Electrical characteristics

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

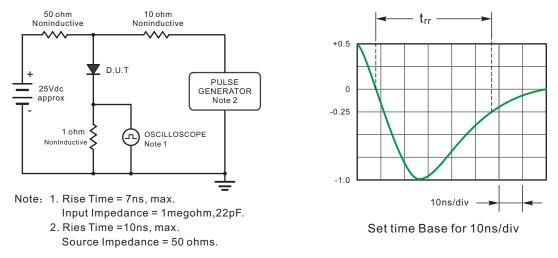
Parameter	Sym bol	PUS2 ABF	PUS2 BBF	PUS2 DBF	PUS2 GBF	PUS2 JBF	PUS2 KBF	PUS2 MBF	Unit s
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65°C	I _{F(AV)}	2					А		
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load(JEDEC Method)	I _{FSM}	55			50			A	
Maximum Instantaneous Forward Voltage at 2A	V _F	1.0 1.3		1.6			V		
Maximum DC Reverse Current Ta=25℃ at Rated DC Blocking Voltage Ta=125℃	I _R				5 100				μΑ
Typical Junction Capacitance ¹⁾	Cj				60				PF
Maximum Reverse Recovery Time ²⁾	trr	50			75			ns	
Typical Thermal Resistance ³⁾	R _{θJA} R _{θJL}	60 20					°C/W		
Operating and Storage Temperature Range	T _J ,T _S tg	-55 to +150				°C			

Note:

- 1. Measured at 1MHz and applied reverse voltage of 4V D.C
- 2. Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$
- 3. P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

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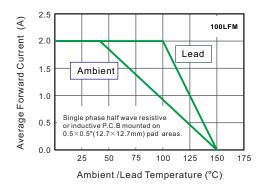


Fig.2 Maximum Average Forward Current Rating

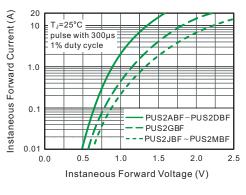


Fig.3 Typical Instaneous Forward Characteristics

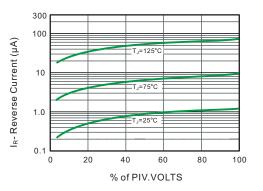
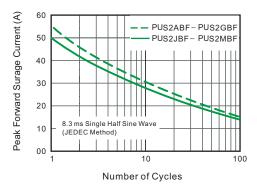
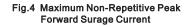


Fig.3 Typical Reverse Characteristics

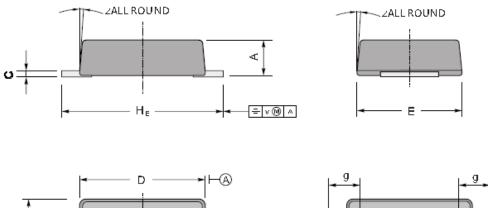




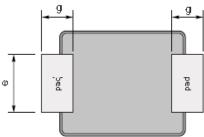
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Product dimension (SMBF)





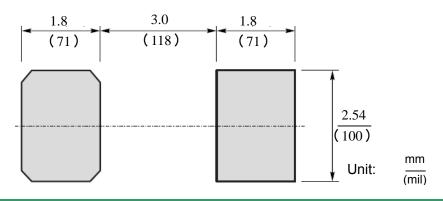


Top View



UNIT		А	C	D	E	H₌	е	g	2
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	- 9°
mm	min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	
mil	max	51	10	173	146	216	86	40	
	min	43	7	165	138	200	75	40	

The recommended mounting pad size



Ordering information

Device	Package	Shipping		
PUS2ABF~PUS2MBF	SMBF (Pb-Free)	5000/ Tape & Reel		

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