DESCRIPTION

The S3ABF~S3MBF are available in SMBF package

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Available in SMBF package

ORDERING INFORMATION

Package Type	Part Number				
	S3ABF				
SMBF	S3BBF				
	S3DBF				
	S3GBF S3JBF				
					S3KBF
		S3MBF			
Note	SPQ: 5,000pcs/Reel				
AiT provides all RoHS Compliant Products					

MECHANICAL DATA

Case: SMBF

Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 57mg / 0.002oz

PIN DESCRIPTION



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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 %.

Paramete	r	Symbol	S3ABF	S3BBF	S3DBF	S3GBF	S3JBF	S3KBF	S3MBF	Unit
Maximum Repetitive Peak		V_{RRM}	50	100	200	400	600	900	1000	V
Reverse Voltage	Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltag	Maximum RMS Voltage			70	140	280	420	560	700	V
Maximum DC Blacking	Maximum DC Blacking Voltage		50	100	200	400	600	800	100	V
Maximum Average Fo	Maximum Average Forward									
Rectified Current T _A =6	65°C	I _{F(AV)}	3.0							Α
Peak Forward Surge (Peak Forward Surge Current									
8.3ms Single Half Sine wave		I _{FSM}	100							A
Superimposed on Rated Load										
(JEDEC Method)										
Maximum Instantaneous Forward									V	
Voltage at 3A		VF	1.1						V	
Maximum DC										
Reverse Current	T _A =25°C	ı	5.0							μΑ
at Rated DC	T _A =125°C	I _R	200							
Blocking Voltage										
Typical Junction Capacitance ^{NOTE1}		Сл	45						pF	
Typical Thermal Resistance ^{NOTE2}		RθJA	40					°C/W		
Operating and Storage		т. т.		-55~+150					°C	
Temperature Range		T _J , T _{STG}	-55~T 150							

NOTE1: Measured at 1MHz and applied reverse voltage of 4V D.C

NOTE2: P.C.B. mounted with 0.5×0.5 " (12.7 x 12.7 mm) copper pad areas.

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TYPICAL CHARACTERISTICS

Figure 1. Forward Current Derating Curve

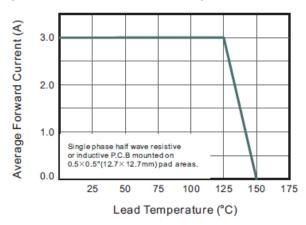


Figure 3. Typical Instantaneous Forward

Characteristic

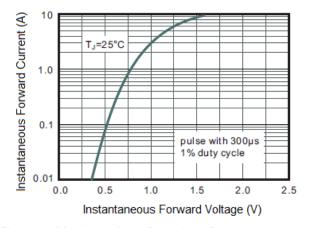


Figure 5. Maximum Non-Repetitive Peak

Forward Surge Current

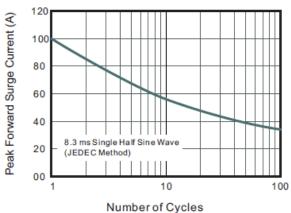


Figure 2. Typical Reverse Characteristics

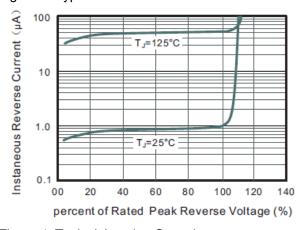
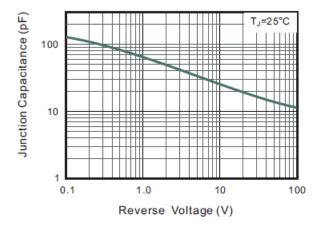


Figure 4. Typical Junction Capacitance

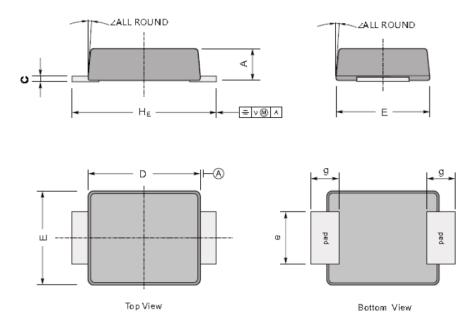


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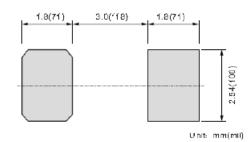
PACKAGE INFORMATION

Dimension in SMBF (Unit: mm)

Plastic Surface mounted package; 2 leads



The recommended mounting pad size



UN	VIT	Α	C	D	Е	HE	Е	g	4
mm	Max	1.3	0.26	4.4	3.7	5.5	2.2	10	
mm	Min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	9°
:1	Max	51	10	173	146	216	86	40	9
mil	Min	43	7	165	138	200	75	40	

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