

ES2ABF THRU ES2JBF

Cathode

Anode

DESCRIPTION

PINNING

PIN

1

2

Surface Mount Superfast Recovery Rectifier

Reverse Voltage – 50 to 600 V Forward Current –2 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Su
- Le

MF

• C

• A

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, derate current by 20%.

Superfast reverse recovery time					
Lead free in comply with EU RoHS 2011/65/EU directives	2				
ECHANICAL DATA					
Case: SMBF	Simplified outline SMBF and symbol				
Γerminals: Solderable per MIL-STD-750, Method 2026					
Approx. Weight: 57mg / 0.002oz					

Parameter	Symbols	E\$2ABF	ES2BBF	ES2CBF	E\$2DBF	ES2EBF	ES2GBF	E\$2JBF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	٧
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	٧
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	٧
Maximum Average Forward Rectified Current at T∟= 100 °C	I _{E(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50						Α	
Maximum Forward Voltage at 2A	V _F	1 1.25 1			1.65	٧			
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 100				μA			
Typical Junction Capacitance at V _R =4V, f=1MHz	Cj					рF			
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{rr} =0.25A	t _{rr}				35				ns
Typical Thermal Resistance 2)	R _{eja}	65				°C/W			
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ + 150					°C		

^{1)} Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A

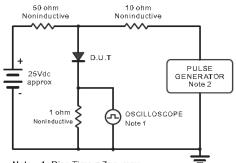
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²) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.



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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.

Fig.2 Maximum Average Forward Current Rating

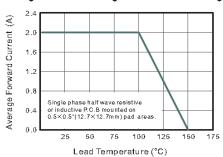


Fig.4 Typical Forward Characteristics

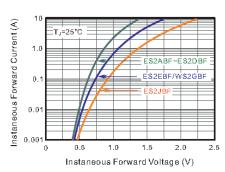
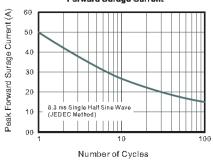


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



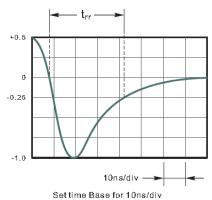


Fig.3 Typical Reverse Characteristics

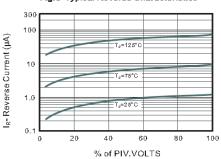
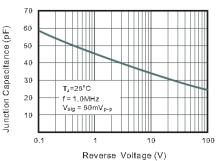


Fig.5 Typical Junction Capacitance



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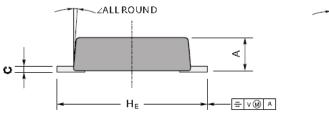


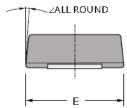
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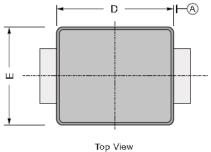
PACKAGE OUTLINE

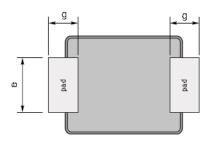
Plastic surface mounted package; 2 leads

SMBF





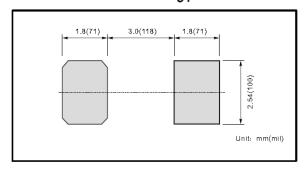




Bottom View

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

The recommended mounting pad size



Marking

Type number	Marking code
ES2ABF	E2AB
ES2BBF	E2BB
ES2CBF	E2CB
ES2DBF	E2DB
ES2EBF	E2EB
ES2GBF	E2GB
ES2JBF	E2JB

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单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)