ES5ABF~ES5JBF

Rev.B May.-2019

蓝箭电子 BLUE ROCKET ELECTRONICS

DATA SHEET

/ Descriptions

50V~600V 5.0A SMBF

Surface Mount Ultrafast Recovery Rectifier,Reverse Voltage:50 to 600V,Forward Current:5.0A, SMBF package.

/ Features

RoHS 2011/65/EU

Glass Passivated Chip Junction High efficiency Lead free in comply with EU R0HS 2011/65/EU directives For surface mounted applications. Halogen free product.

/ Applications

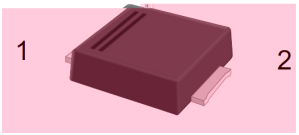
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General purpose.

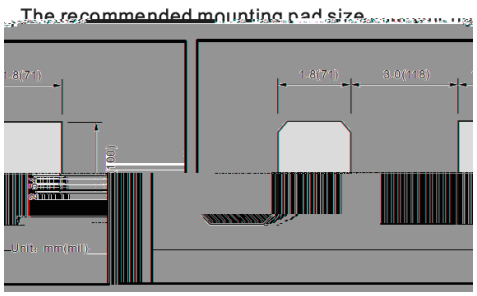
/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

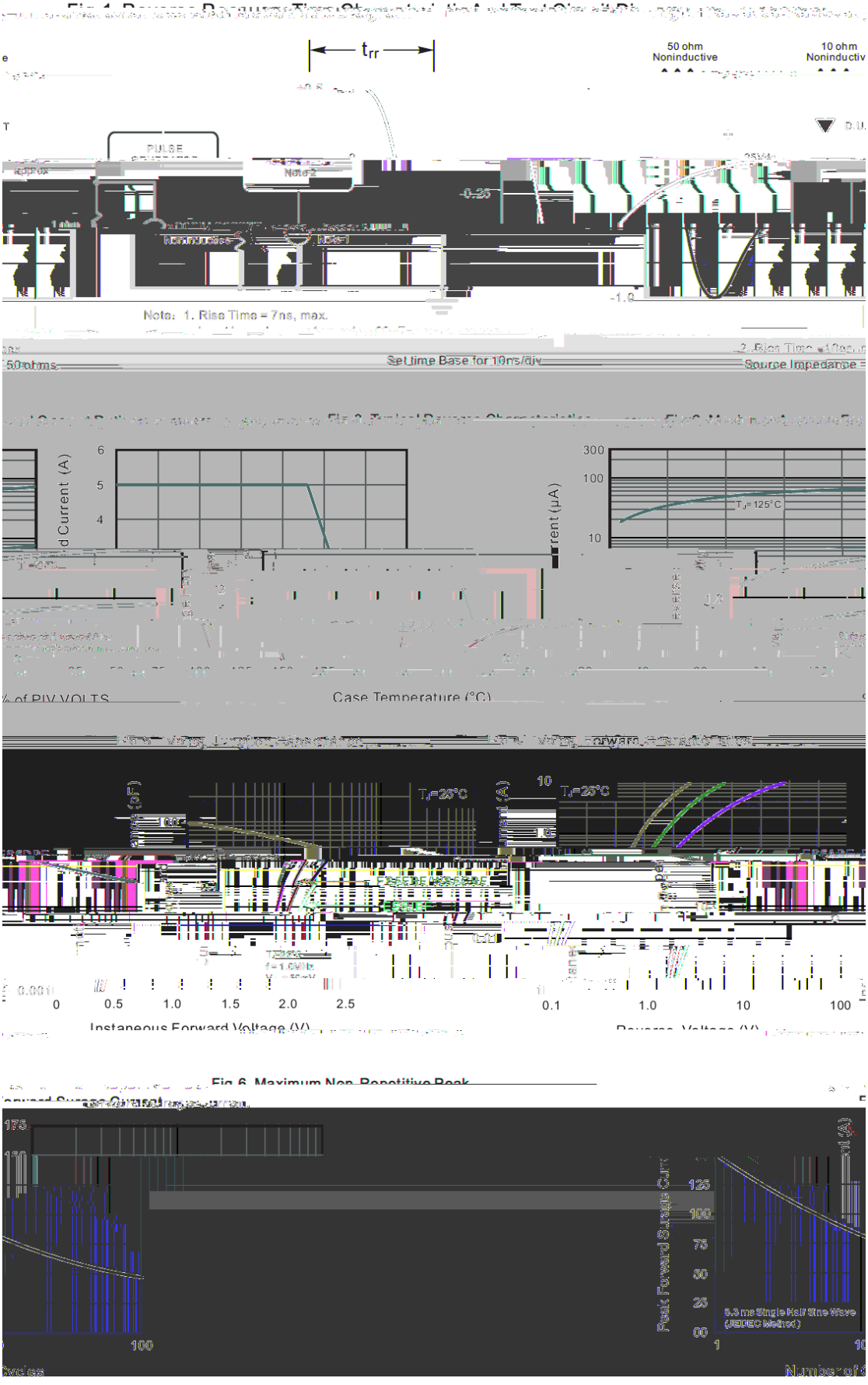
Parameter	Symbol	Rating	Unit
Maximum DC			

Note:

(1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areass .

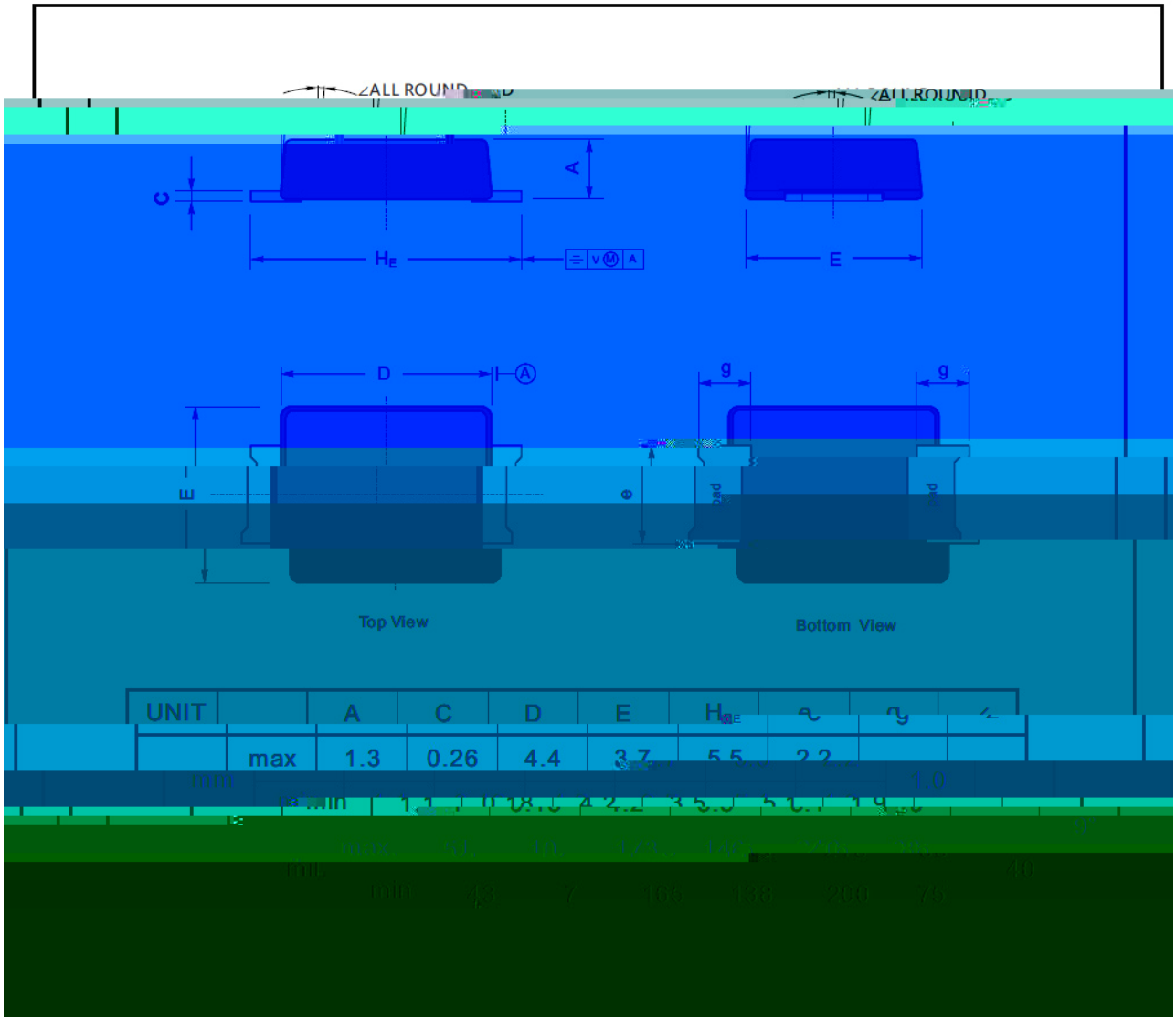
Parameter	Symbol	Test condition	Rating							Unit
			ES5ABF	ES5BBF	ES5CBF	ES5DBF	ES5EBF	ES5GBF	ES5JBF	
Maximum Instantaneous Forward Voltage	V_F	I_F=5.0A	1.0				1.25		1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25	10.0							uA
		T_a=125	100							
Maximum Reverse Recovery Time	T_{rr}	I_F=0.5A I_R=1.0A I_{rr}=0.25A	35							ns

/ Electrical Characteristic Curve



/ Package Dimensions

SMBF



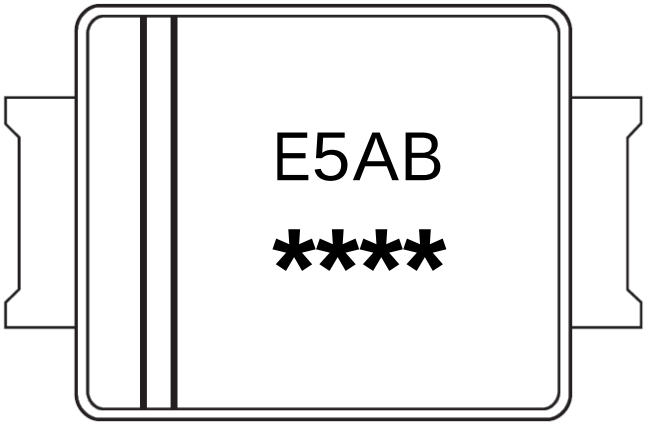
UNIT		A	C	D	E	H_E			
	max	1.3	0.26	4.4	3.7	5.5	2.2		

/ Marking Instructions

Marking

Type number	Marking code
E5BB	ES5BBF
E5CB	ES5CBF
ES5EBF	E5EB
ES5GBF	E5GB
ES5JBF	E5JB

/ Marking Instructions



E5AB

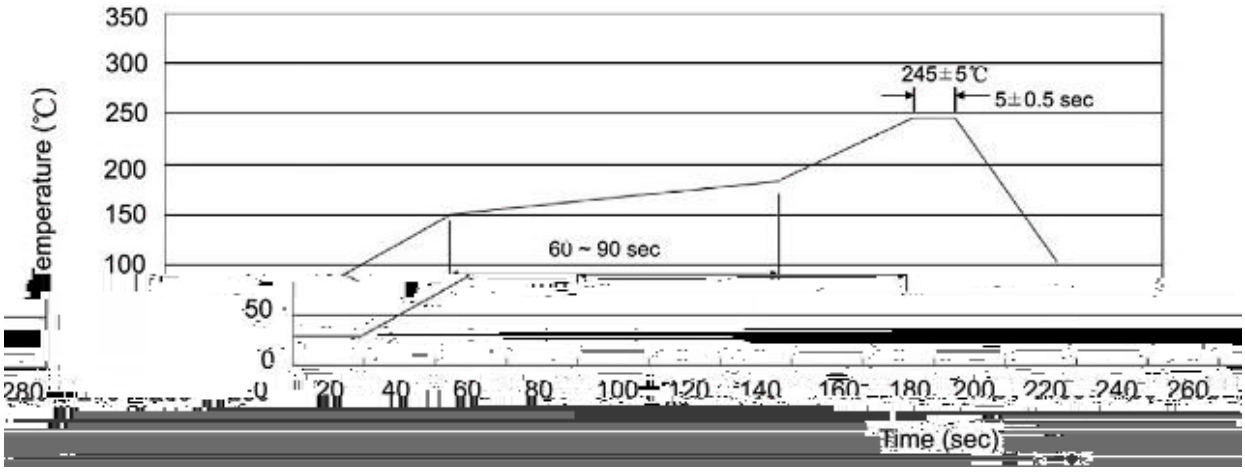
******** 1 ***** 3 *****

Note:

E5AB Product Type Code

******** Lot No. Code The 1st ***** means:YM Code The last 3 ***** means:little Lot No Code

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



1		150	180		60	90sec;	
2		245±5				5±0.5sec;	
3				2	10	/sec.	

Note:

1.Preheating:150~180 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.