

BRGBU2006SF

Rev.A Jun.-2016



蓝箭电子
BLUE ROCKET ELECTRONICS

DATA SHEET

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Current	$I_{(AV)}$	4×20	A
Peak forward surge current	I_{FSM}	180	A
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	2.2	$^{\circ}C/W$
Junction Temperature Range	T_J	150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55~150	$^{\circ}C$

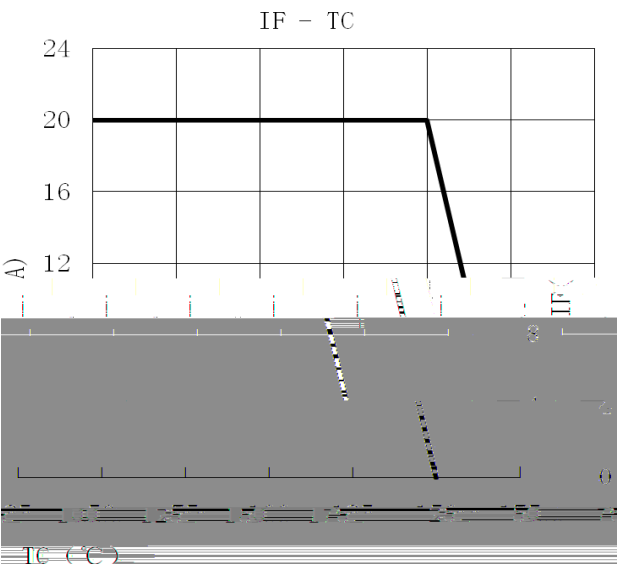
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse Voltage	V_R	$I_R=1mA$	600	680		V
Forward Voltage	V_F	$I_F=5A$ $T_C=25^{\circ}C$		1.28	1.45	V
		$I_F=5A$ $T_C=125^{\circ}C$		1.05	1.25	
		$I_F=10A$ $T_C=25^{\circ}C$		1.55	1.75	
		$I_F=10A$ $T_C=125^{\circ}C$		1.25	1.45	
		$I_F=20A$ $T_C=25^{\circ}C$		1.95	2.25	
		$I_F=20A$ $T_C=125^{\circ}C$		1.55	1.75	
Instantaneous Reverse Current	I_R (Note 1)	$V_R=600V$ $T_a=25^{\circ}C$			10	μA
		$V_R=600V$ $T_a=125^{\circ}C$			500	
Reverse Recovery Time	t_{rr}	$I_F=0.5A$ $I_R=1.0A$ $I_{RR}=0.25A$		35	50	ns

Notes:

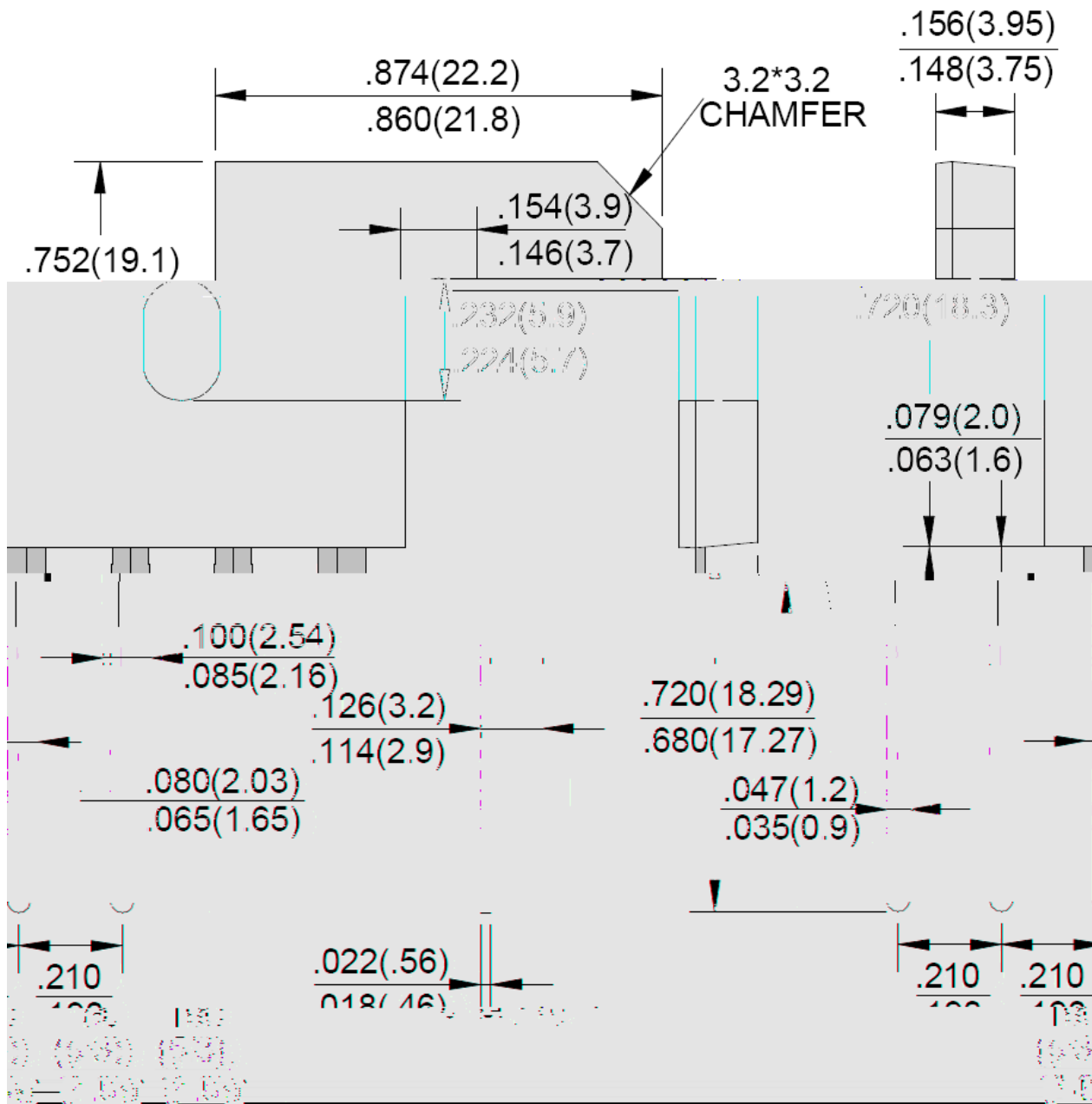
- Short duration pulse test used to minimize self-heating effect.
- Unless otherwise noted, values for the parameters of a single chip

/ Electrical Characteristic Curve





/ Package Dimensions

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Dimensions in inches and (millimeters)

Dimensions

/ Marking Instructions



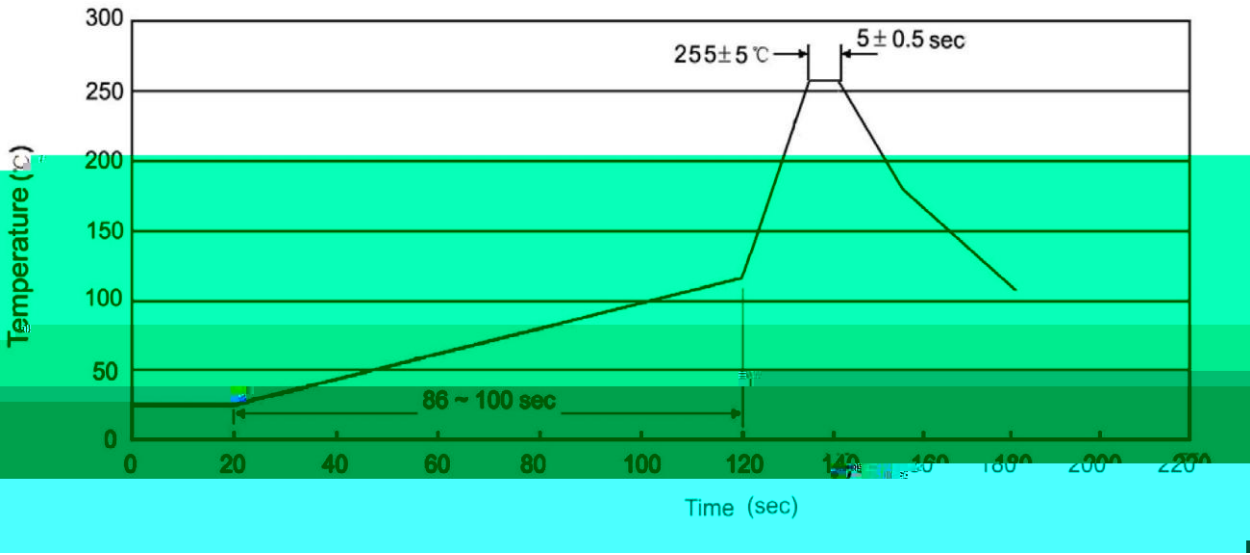
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Note:

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Product Type

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:
1.Preheating:25~150 , Time:60~90sec.

1	25	150	60	90sec;
2	255	5	5	0.5sec;