

Rev.A Jul.-2021



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BRAD6265SC
BRAD6265SC

PWM

CC/CV

90V~264V

BRAD6265SC

UVLO

OTP

OCP

FB



431

CC/CV

FB



三绕组应用电路

	90~264V
BRAD6265ASC	12W
BRAD6265BSC	10W
BRAD6265CSC	7W
BRAD6265DSC	5W
BRAD6265ESC	



2 3 4 5

See Marking Instructions

B C D E

F

Parameter	Symbol	Rating	Unit
FB/VCC	V_{FB}/V_{VCC}	-0.3~6	V
CS	V_{CS}	-1~5	V
	T_J	150	°C
10s	T_L	260	°C
	T_{opr}	-40~125	°C
	T_{stg}	-55~150	°C
HBM	ESD	2K	V

) G H D E

F

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
6 7 7 8) 9 :						
	I_{ST}	VCC=3.5V		1	10	uA
	UVLO _{NO}		2.6	3	3.3	V
	UVLO _{OFF}		4	4.5	5	V
	I_{OP}	$V_{FB}=20kHz$ VCC=5V		0.5	1	mA
VCC	VCC _{CLAMP}	$I_{VCC}=2mA$	4.8	5.2	5.5	V
7;) < = > 9 :						
	T_{LEB}			300		ns
	T_{D_OC}			100		ns
OCP	V_{TH_OC}		480	500	520	mV
?@ = > 9 : A						
	V_{FB_REF}		1.17	1.2	1.23	V
	V_{FB_SHORT}			0.5		V
	T_{FB_SHORT}			27		ms
	V_{FB_DEM}			25		mV
	T_{ON_MAX}			30		us

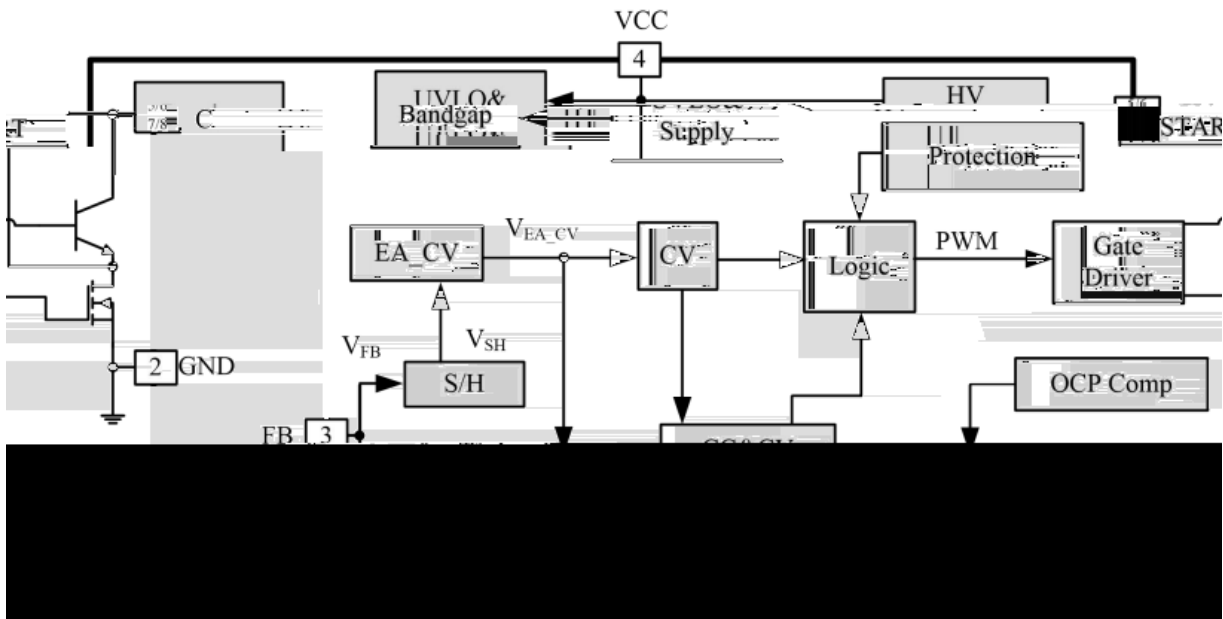


) G H D E

F

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
	T _{OFF_MAX}			7		ms
	F _{MAX}				70	kHz
	I _{COMP_MAX}			10		uA
I J K L						
	OTP _{TH}			165		°C
	OTP _{REC}			135		°C
M N @O P 9 :						
-	V _{CBO}			700		V

V W X Y



M H " #

BRAD6265SC

PWM

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CC/CV

90V~264V

TL431

Q < R Q S T U A

BRAD6265SC

CC

CV

FB



MH " #

FB

BRAD6265SC CC/CV

DCM

I_p

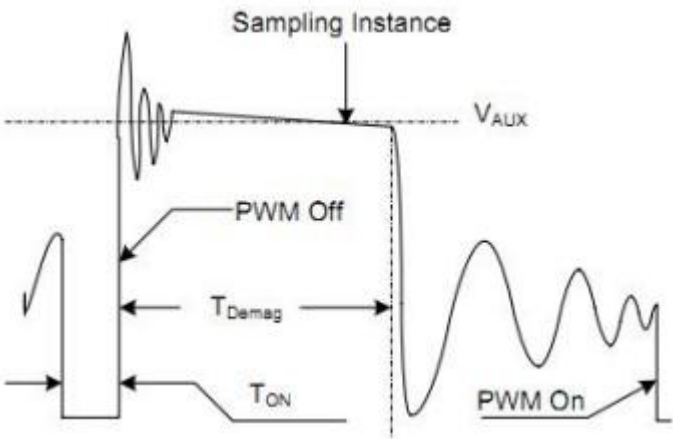
$$I_S = \frac{N_P}{N_S} \times I_P$$

1

$$V_{AUX} = \frac{N_{AUX}}{N_S} \times (V_o + \Delta V)$$

2

ΔV



1

FB

GND

Z [) S \] AA

BRAD6265SC

V_O.

$$V_O = \frac{1.2 \times (R_{FBL} + R_{FBH})}{R_{FBL}} \times \frac{N_S}{N_P} - V_D$$

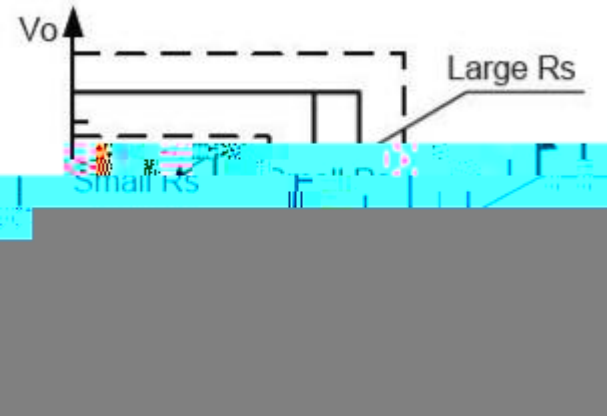
3



MH " #

$$V_0 = \frac{1.2 \times (R_{FBL} + R_{FBH})}{R_{FBL}} \times \frac{N_s}{N_{AUX}} - V_D \tag{4}$$

R_{FBL} FB R_{FBH} FB N_P N_s N_{AVX}
 V_D
77 TU ^ _ Z [MN ` aA
BRAD6265SC CS RS CC RS
CC 2



CC 2 RS CC VO

$$I_{CC} = \frac{1}{4} \times \frac{N_p}{N_s} \times I_p \tag{5}$$

b c d NA
BRAD6265SC

$$PO_{MAX} = \frac{1}{2} L_p F_{SW} I_p^2 \tag{6}$$

L_p I_p
CC

$$F_{SW} = \frac{1}{2T_{DEM}} \tag{7}$$

BRAD6265SC $L_p F_{SW}$ CC



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e f g h A A

BRAD6265SC

FB

1

FB

2

$$\frac{\Delta V}{V_{OUT}} = \frac{I_{COMP} \times (R_{FBL} // R_{FBH}) \times 10^{-6}}{1.2} \times 100\% \quad 8$$

V_{OUT}

7;A) < = > _ i j k l A

BRAD6265SC

CS

R_S

CS

RC

K L M H A A

BRAD6265SC

UVLO VCC

OTP

OCP

CS

VCC

VCC

m7@ \ n A

BRAD6265SC PCB

VCC

2.2uF

X7R

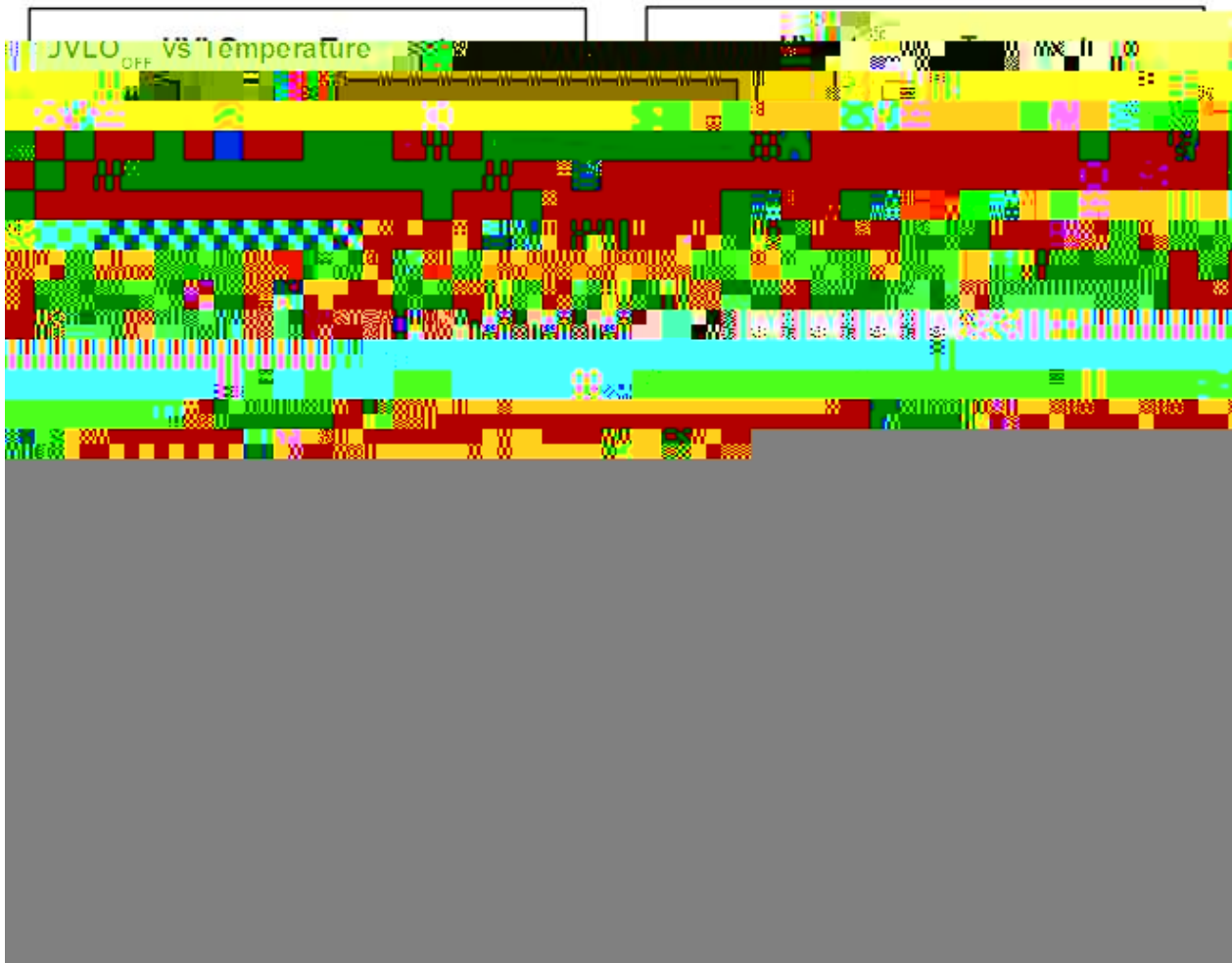
$\geq 6.3V$

4.7uF/10V VCC

VCC GND C



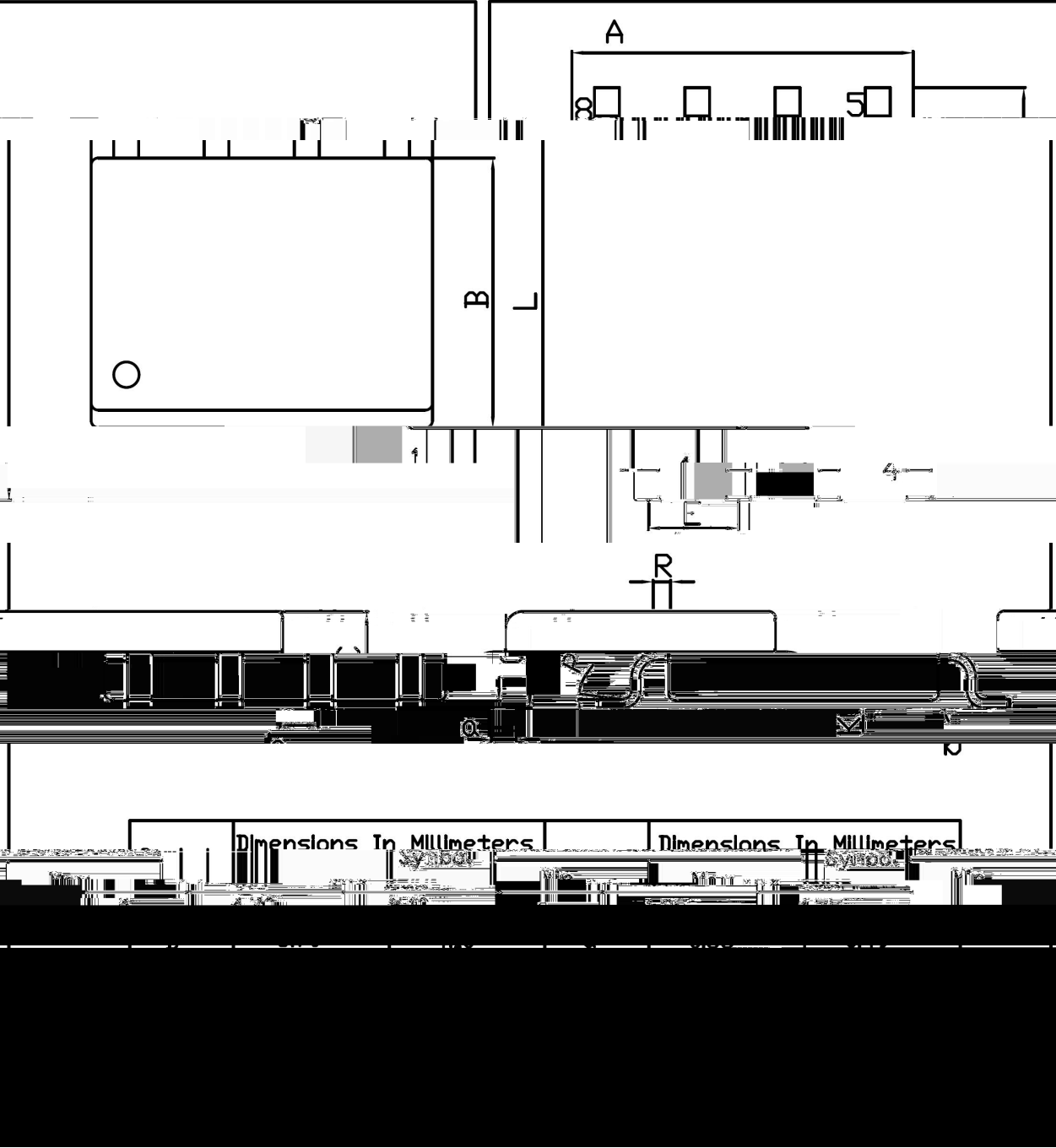
) D E o e Y





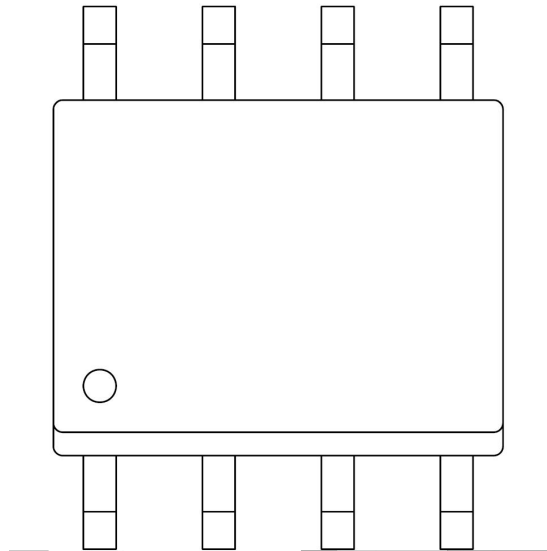
p q r s Y

UNITED STATES OF AMERICA



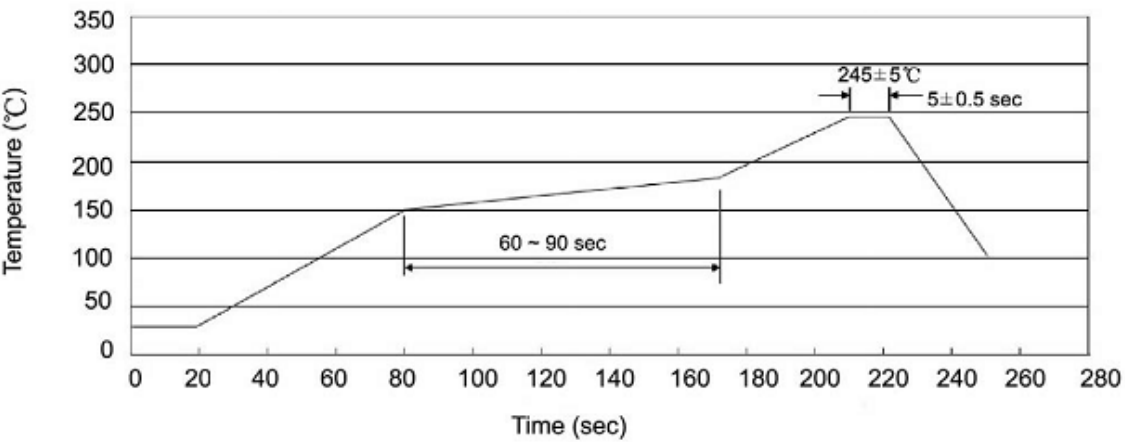


2 3 t u





v < w J x o e Y y z P { | } { ~ i Φ ~ { Am ~ £ ¢ ¥ ; { A ¢ £ ~ A § " " A " { ¢ ! £ © A ; £ ! ¢ { ~ ¥ « ¬ ~ m ® ~ ? ~ { °



- 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.

± w ² ³ ´ μ ¶ ·

260 5 10 1 sec. Temp.:260±5°C Time:10±1 sec

, ¹ º »

/ REEL