/ Descriptions

SOP-7 ,BRAD6225SA PSR PWM
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In a SOP-7 Plastic Package ,BRAD6225SA is a high performance Primary Side Regulation (PSR) PWM power switch with high precision CV/CC control ideal for charger applications.

/ Features

800V BJT Built-in 800V Power BJT.
PWM/PFM Multi-Mode PWM/PFM Control.
Fast Dynamic Response.
Built-in Dynamic Base Drive.
Audio Noise Free Operation.
±5% ±5% CC and CV Regulation.
75mW Low Standby Power<75mW.
Programmable Cable Drop Compensation (CDC) in CV Mode.
AC Built-in AC Line & Load CC Compensation.
SLP OCP LEB
OTP VDD
Build in Protections: Short Load Protection(SLP) Cycle-by-Cycle Current Limiting(OCP) Leading Edge Blanking(LEB) On-Chip Thermal Shutdown(OTP) VDD OVP & UVP & Clamp.
QR Quasi-Resonant mode of operation
Halogen-free Product.

/ Applications

Battery Chargers for Cellular Phones.
AC/DC LED AC/DC Power Adapter and LED Lightings.

/ Product Series

	230V	
BRAD6225CSA	7W	SOP-7
BRAD6225DSA	5W	SOP-7
BRAD6225ESA	3W	SOP-7

/ Marking

/ See Marking Instructions.

BRAD6225SA

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Note 1: If the device operating conditions over the maximum rating of the above-mentioned conditions, may cause permanent damage to the device. The above parameters is only part of the operating conditions the maximum, we do not recommend the device running outside the scope of this specification. If the device to work long hours under the condition of absolute maximum limit, its stability may be affected.

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Maximum Cable Drop Compensation (CDC) Current	I_{Cable_max}			45		uA
Current Sense Input Section (CS Pin)						
CS Input Leading Edge Blanking Time	T_{LEB}			350		ns
Minimum overcurrent protection threshold	V_{TH_OCPmin}			500		mV
Maximum overcurrent protection threshold	V_{TH_OCPmax}			550		mV
Power BJT Section (C Pin)						
Collector-Base Breakdown Voltage	V_{CBO}		800			V

/ Functional Description

BRAD6225SA (PSR)
/

VDD

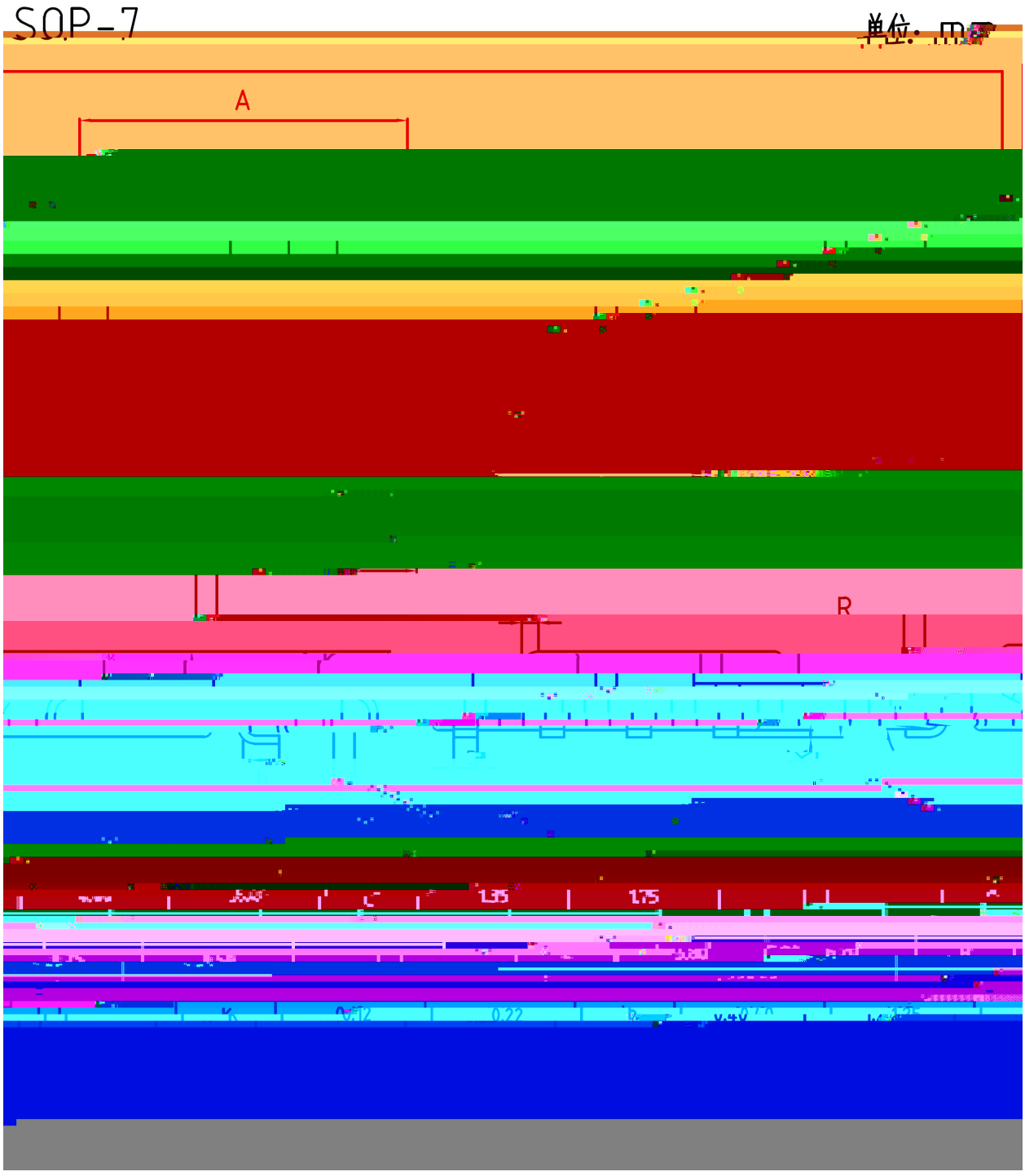
VDD

BRAD6225SA BJT
BJT

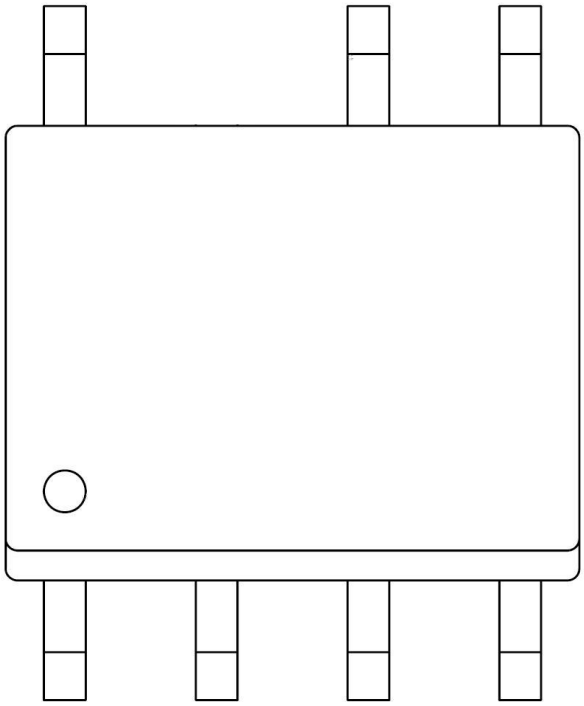
BJT FB FB 2/3
2.0V

BRAD6225SA VFB
CS CS CS

/ Package Dimensions



/ Marking Instructions



BR

6225C 6225D 6225E

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Note

BR	Company Code
6225C	Product Type, or 6225D , or 6225E
****:	Lot No.Code,code change with Lot No.

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

