

BRCS070P03YM

Rev.B Feb.-2023

/ Descriptions

PDFN5² 6A P
Dual P-CHANNEL MOSFET in a PDFN5x6A Plastic Package .

/ Features

Dual P-CHANNEL
VDS(V)=-30V
ID=-33A
RDS(ON)<8m (VGS=-10V)
RDS(ON)<15m (VGS=-4.5V)
HF Product.

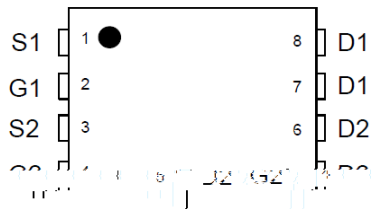
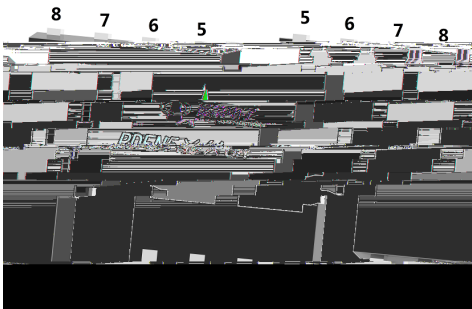
/ Applications

Power Management in Notebook Computer, Portable Equipment and Battery Powered Systems.

/ Equivalent Circuit



/ Pinning



/ Marking

See Marking Instructions.

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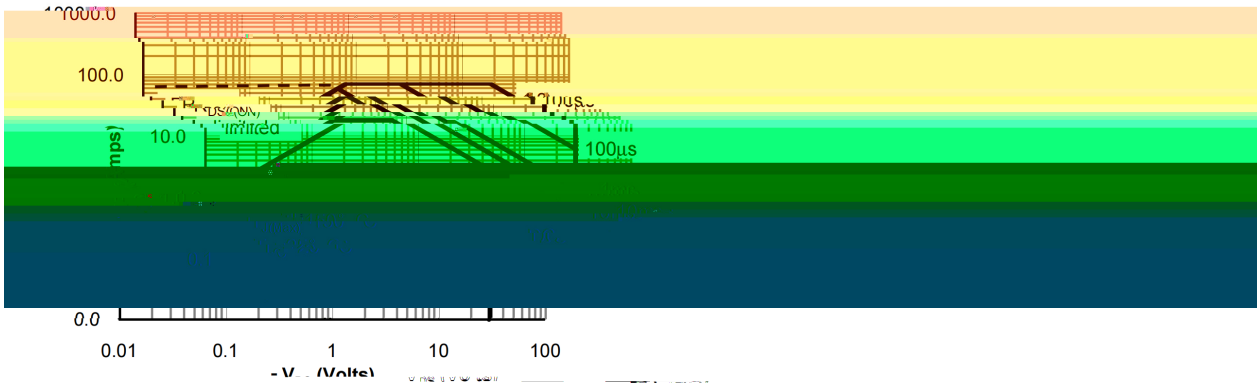
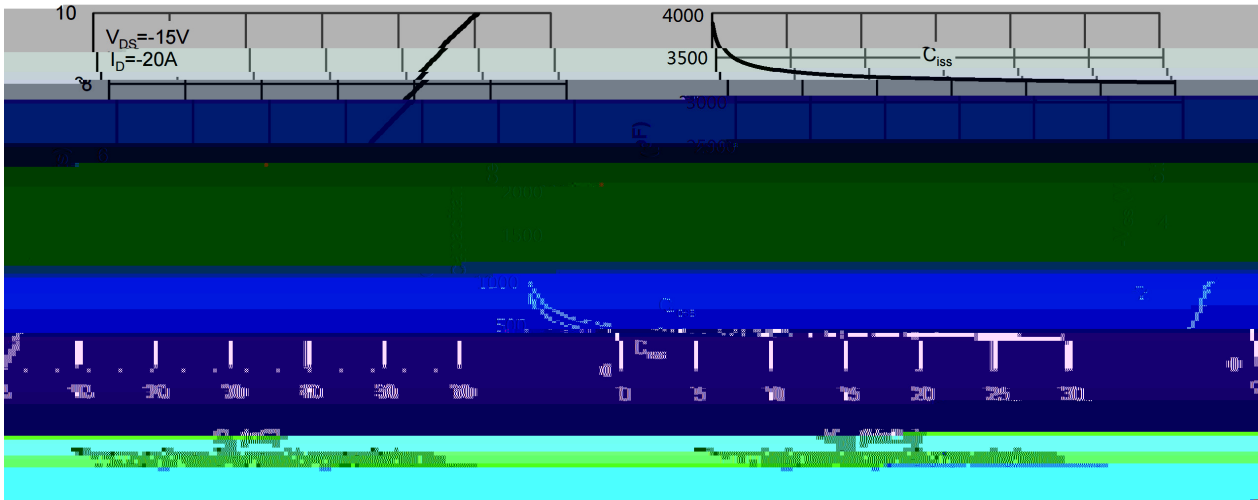
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	-30	V
Drain Current - Continuous	$I_D(T_c=25^\circ\text{C})$	-33	A
Drain Current – Pulsed	I		

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=-10V$ $V_{DS}=-15V$ $R_L=0.75$ $R_{GEN}=3$		12.5		ns
Turn-On Rise Time	t_r			19		
Turn-Off Delay Time	$t_{d(off)}$			125		
Turn-Off Fall Time	t_f			67		

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/ Electrical Characteristic Curve



$-V_{DS} \geq$ or equal to $-4.5V$

Figure 9: Maximum Transient Thermal Impedance vs V_{DS} Operating Area

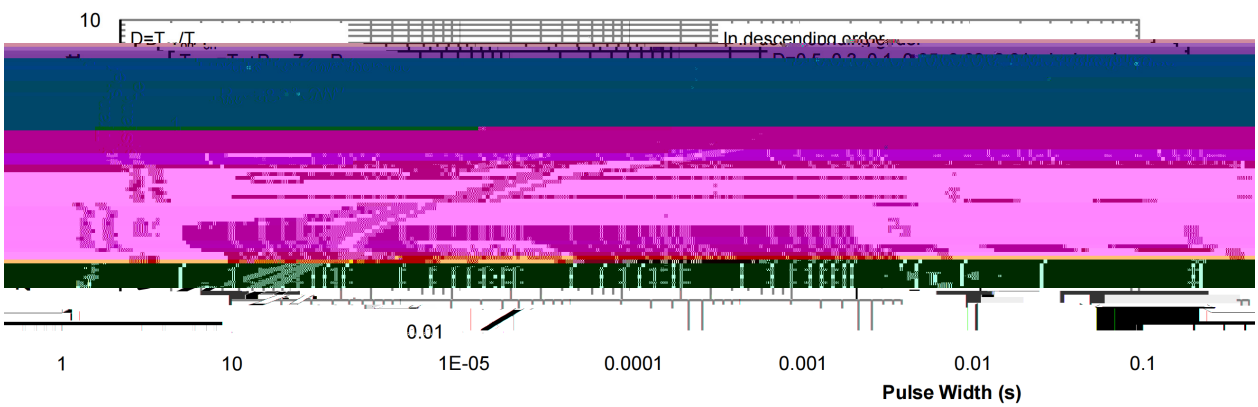
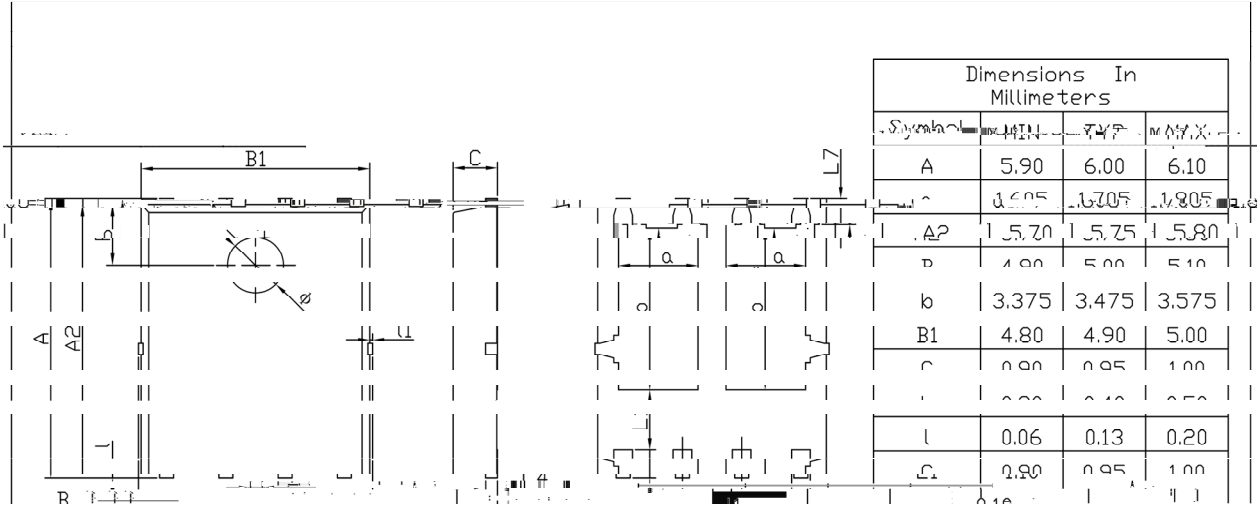


Figure 10: Normalized Maximum Transient Thermal Impedance vs Pulse Width

/ Package Dimensions

PDFN5 X6A

Unit:mm

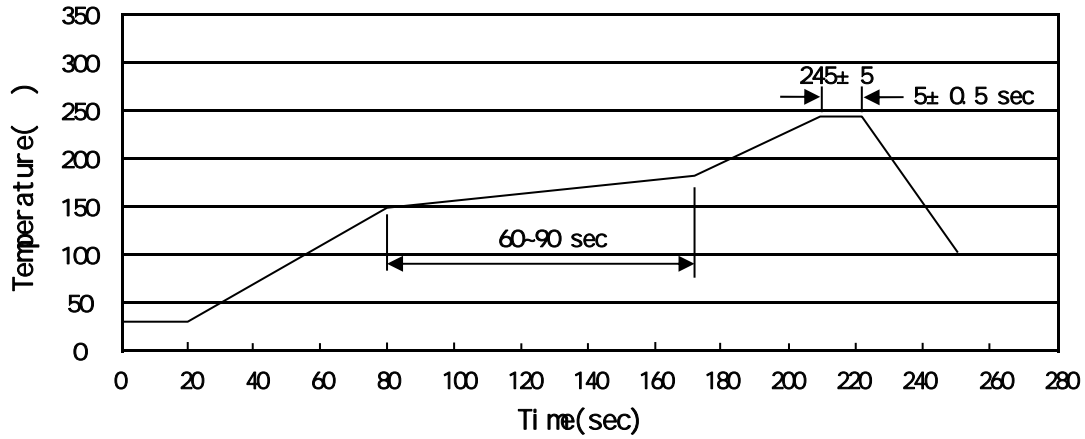


/ Marking Instructions



- 9|
- 070P03
- !!!!
- Note
- BR Company Code
- 070P03 Product Type
- ****: Lot No. Code, code change with Lot No

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



Note:

- | | | | | | |
|---|--------|-----|------------|----------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245..5 | | 5..0.5sec; | | 2.Peak Temp.:245..5 , Duration:5..0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260..5 10..1 sec. Temp.:260..5 Time:10..1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel &	Reels/Inner Box &	Units/Inner Box &	Inner Boxes/Outer Box &	Units/Outer Box &	Reel	Inner Box	Outer Box
PDFN5x6A	5000	2	10000	6	60000	13"×12	360×360×50	380×335×366

/ Notices