BRCS070P03YM

Rev.B Feb.-2023

DATA SHEET

/ Descriptions

PDFN5Ö6A ṂṂ Ŀ ᴥ P ڻ ʆ ὣ Ẕ ጎ

Dual P-CHANNEL MOSFET in a PDFN5×6A Plastic Package .

/ Features

Dual P-CHANNEL

VDS(V)=-30V

ID=-33A

RDS(ON)<8mΩ(VGS=-10V)

RDS(ON)<15mΩ(VGS=-4.5V)

ῆ ғ ᵝ HF Product.

/ Applications

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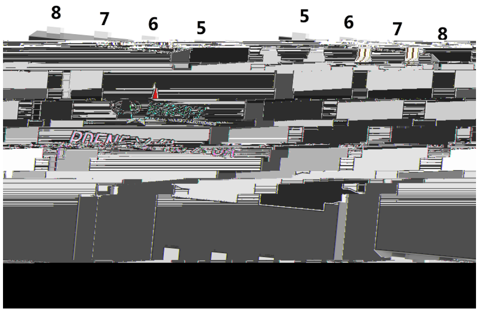
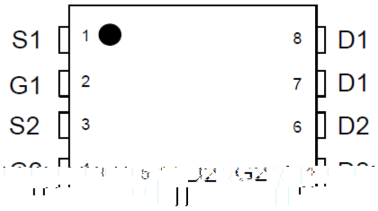
Power Management in Notebook Computer,Portable Equipment and Battery Powered Systems.

/ Equivalent Circuit

/ Pinning





/ Marking

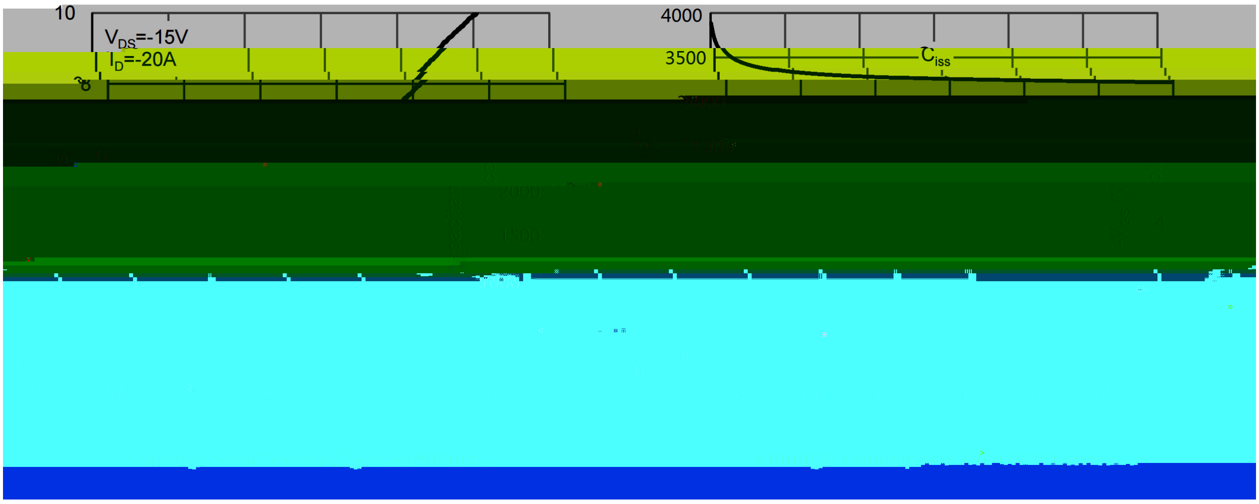
ỏ м ᅥ ب ˝ See Marking Instructions.

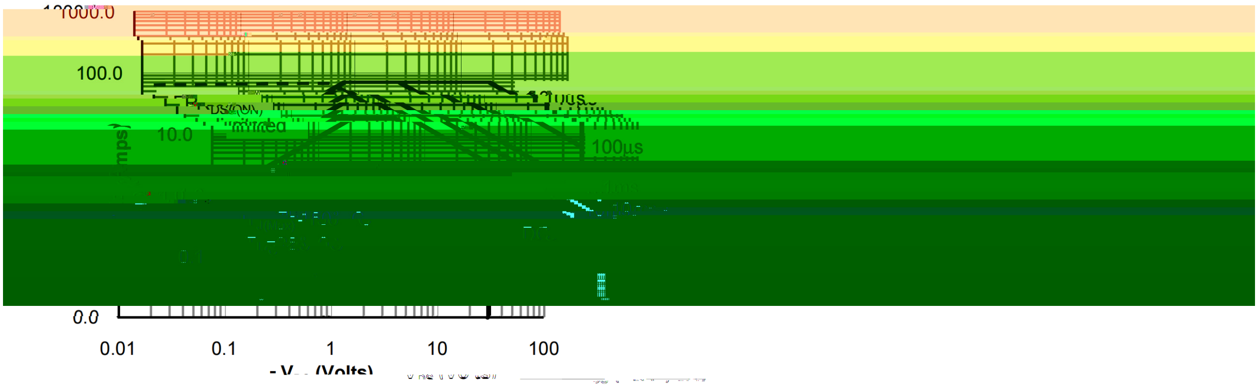
v ῼ̏ Parameter	ɭ ᴺ Symbol	ῼ̏Ӫ Rating	ᴅ Ʉ Unit
Drain-Source Voltage	V_{DS}	-30	V
Drain Current - Continuous	$I_D(T_c=25\ \ )$	-33	A
Drain Current – Pulsed	I		

/ Electrical Characteristics(Ta=25)

v ῞Ω̣ Parameter	ɣ ᴺ Symbol	╜ ꞉ꜛ ƫ Test Conditions	ω̣ ṇ Ӫ Min	Ɛ ʒ Ӫ Typ	ω̣ ᶻ Ӫ Max	ᴅ ɥ Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=-10V V_{DS}=-15V R_L=0.75Ω R_{GEN}=3Ω		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		

/ Electrical Characteristic Curve





- V_{GS}> or equal to -4.5V

Figure 9: Maximum Forward Biased Safe Operating Area

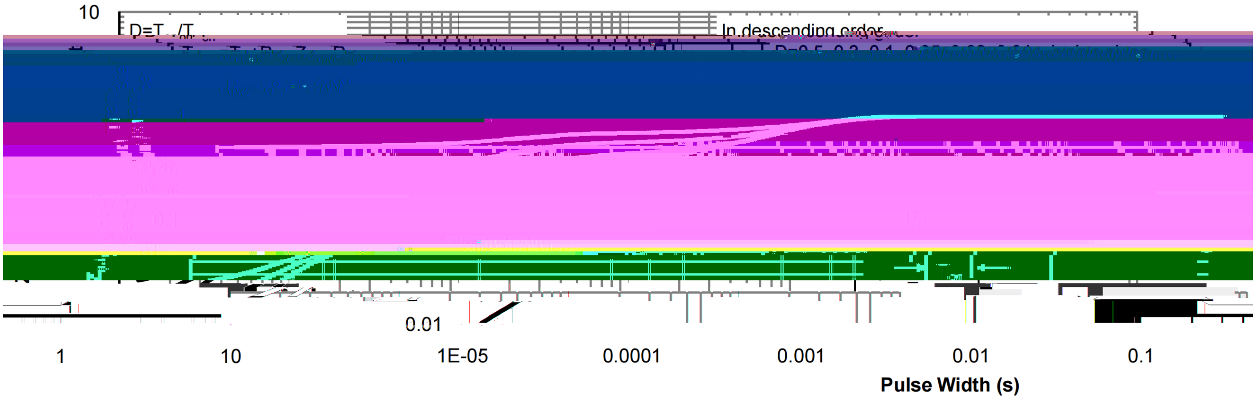
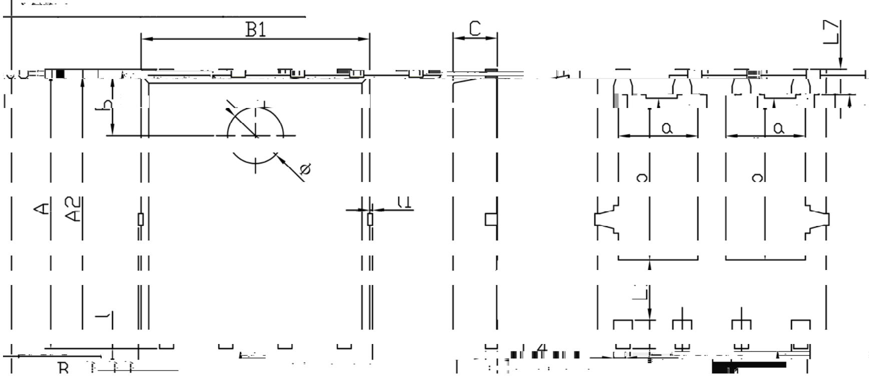


Figure 10: Normalized Maximum Transient Thermal Impedance

/ Package Dimensions

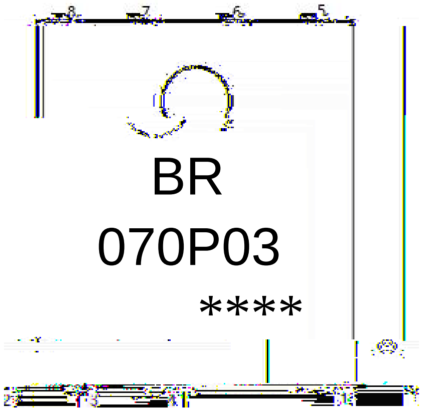
PDFN5 X6A

Unit:mm



Symbol	Dimensions In Millimeters MIN	 TYP	 MAX
A	5.90	6.00	6.10
[illegible]	1.605	1.705	1.805
A2	5.70	5.75	5.80
B	4.90	5.00	5.10
b	3.375	3.475	3.575
B1	4.80	4.90	5.00
C	0.90	0.95	1.00
[illegible]	[illegible]	[illegible]	[illegible]
l	0.06	0.13	0.20
L1	1.10		

/ Marking Instructions



ب ˝ χ

EU χ	ҥѫ ʇ ᴎ Ҧ
070P03 χ	ҥѫ ғ β ʒ N
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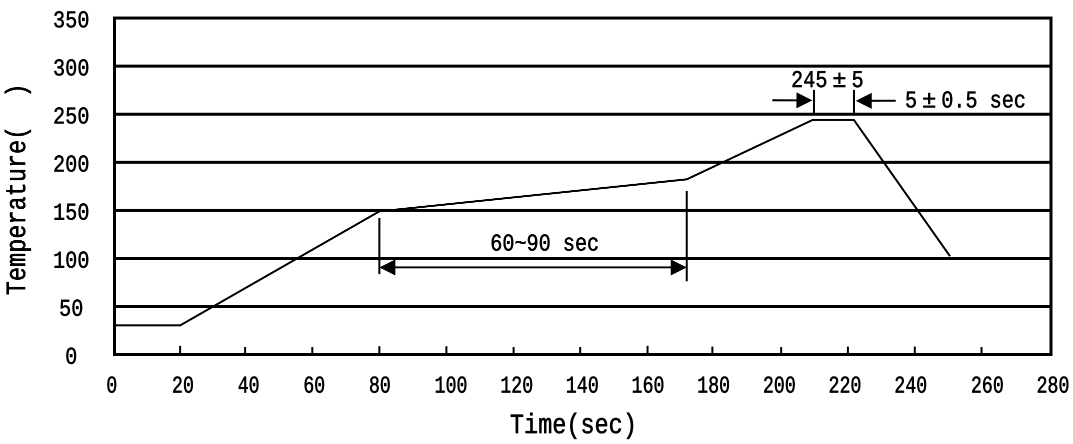
Note χ	
BR χ	Company Code
070P03 χ	Product Type
****:	Lot No. Code, code change with Lot No

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



ب ˝ χ	Note:
1 ỉ ♬ □ ỳ 150 Ќ 180 ƚ ι `H ڑ 60 Ќ 90sec;	1.Preheating:150~180 ƚ , Time:60~90sec.
2 Š Ө □ ỳ 245 ° 5 ƚ ι `H ڑ `Y ᠰ ᠻ 5 ° 0.5sec;	2.Peak Temp.:245 ° 5 ƚ , Duration:5 ° 0.5sec.
3 ỉ ˙ ᠠ ˛ ɔ ᢁ ỳ ᠻ 2 Ќ 10 ƚ /sec.	3. Cooling Speed: 2~10 ƚ /sec.

/ Resistance to Soldering Heat Test Conditions

□ ỳ χ 260 ° 5 ƚ `H ڑ χ 10 ° 1 sec. Temp.:260 ° 5 ƚ Time:10 ° 1 sec

/ Packaging SPEC.

ᢁ ` ɣ ᒷ / REEL

Package Type Ṃ ᒷ ẻ Ã	Units					Dimension (unit mm³)		
	Units/Reel ᴱ 2 ᢁ `	Reels/Inner Box ᢁ ` 2 ¨	Units/Inner Box ᴱ 2 ¨	Inner Boxes/Outer Box ¨ 2 ᠰ	Units/Outer Box ᴱ 2 ᠰ	Reel	Inner Box ¨	Outer Box ᠰ
PDFN5×6A	5000	2	10000	6	60000	13”×12	360×360×50	380×335×366

/ Notices