

# BRCs070N10SZC

Rev.B Jan.-2024

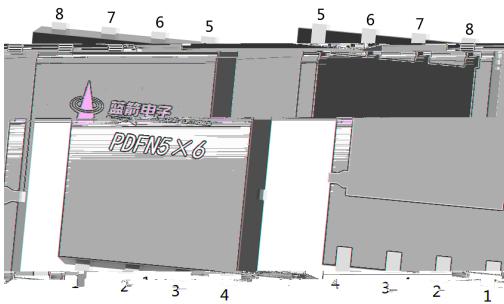
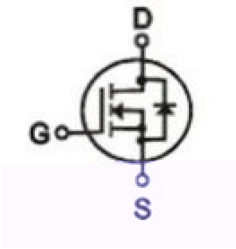
PDFN5 6 N

N-Channel MOSFET in a PDFN5×6 Plastic Package.

Low  $R_{DS(ON)}$  to minimize conductive loss; low Gate Charge for fast switching; Low Thermal resistance; HF Product.

## LED

For boost converters and synchronous rectifiers for consumer, telecom, industrial power supplies and LED backlighting.



PIN1、2、3: S      PIN4:

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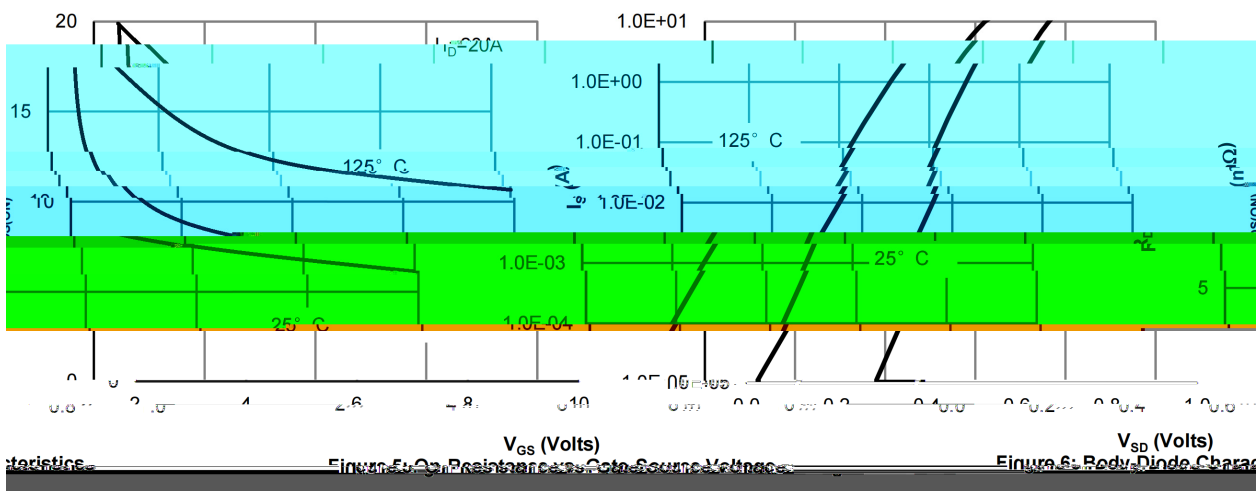
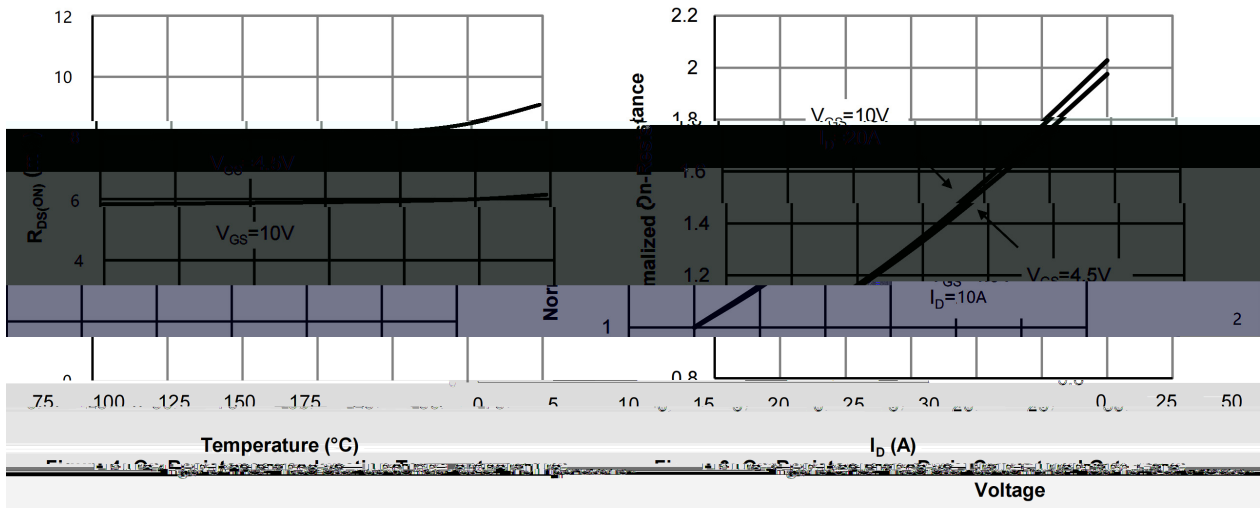
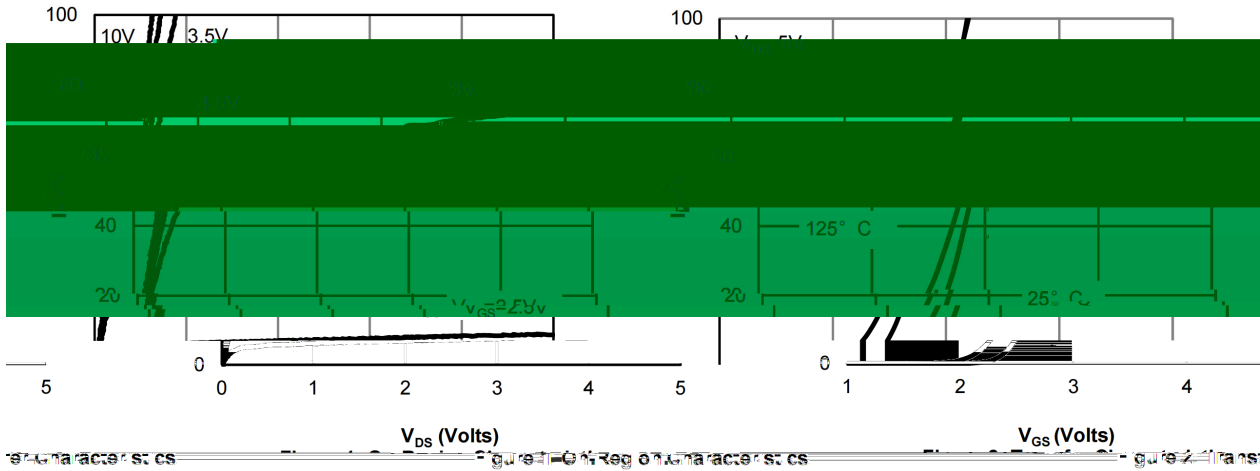
DATA SHEET

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	$V_{DS}$	100	V
Drain Current - Continuous	$I_D$	90	A
Drain Current – Pulsed	$I_{DM}$	200	A
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$		

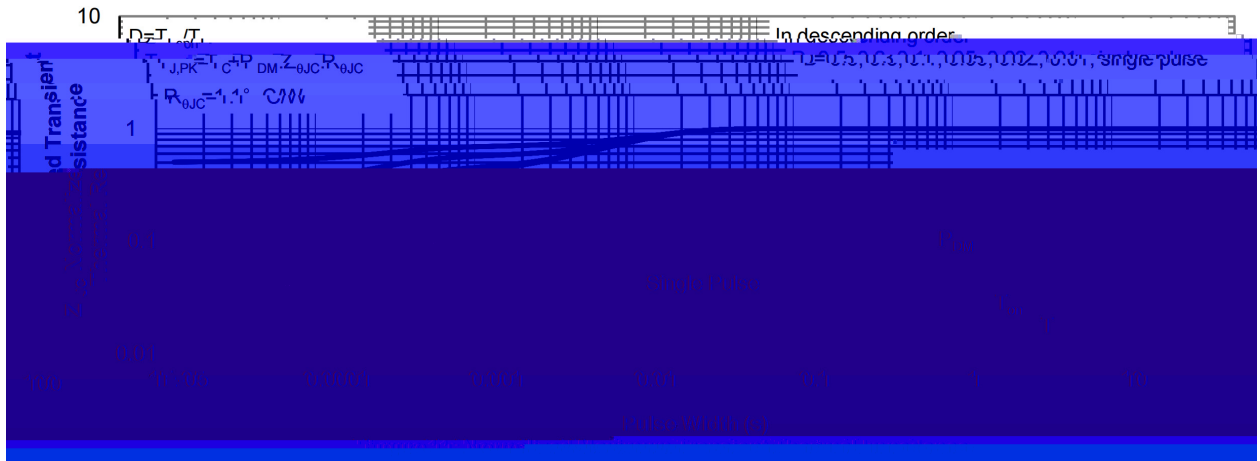
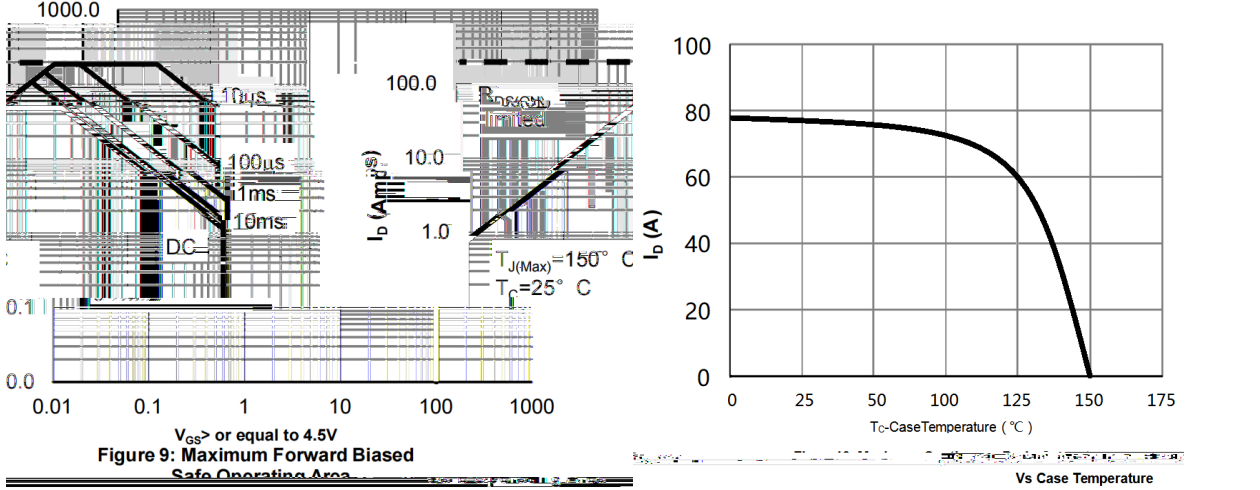
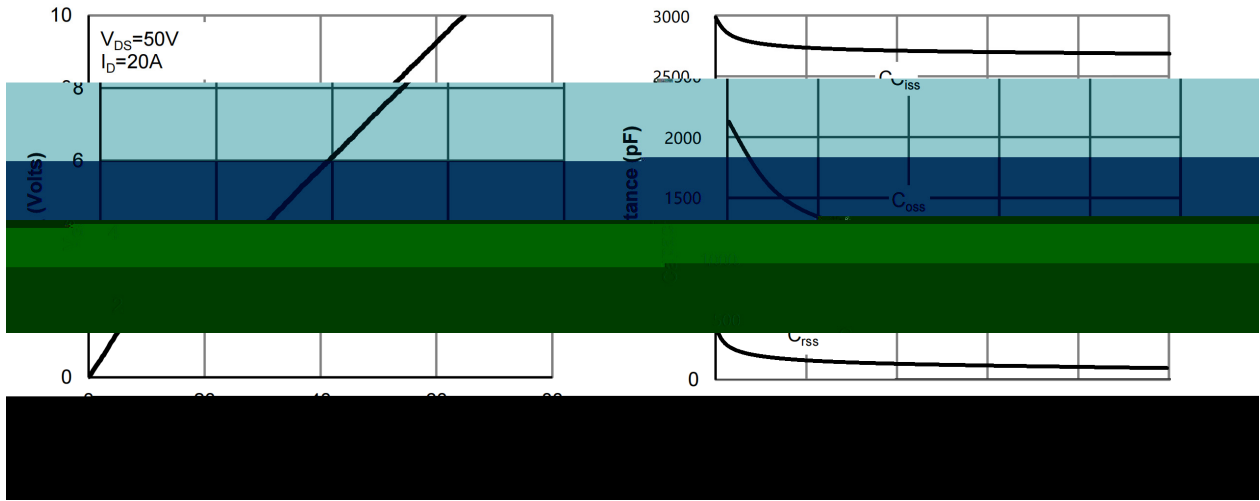
**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{D(on)}$	$V_{GS}=10V, V_{DS}=50V,$ $R_L=2.5\Omega, R_{GEN}=3\Omega$		10		ns
Turn-On Rise Time	$t_r$			6		
Turn-Off Delay Time	$t_{D(off)}$			51		
Turn-Off Fall Time	$t_f$			9		

/ Electrical Characteristic Curve



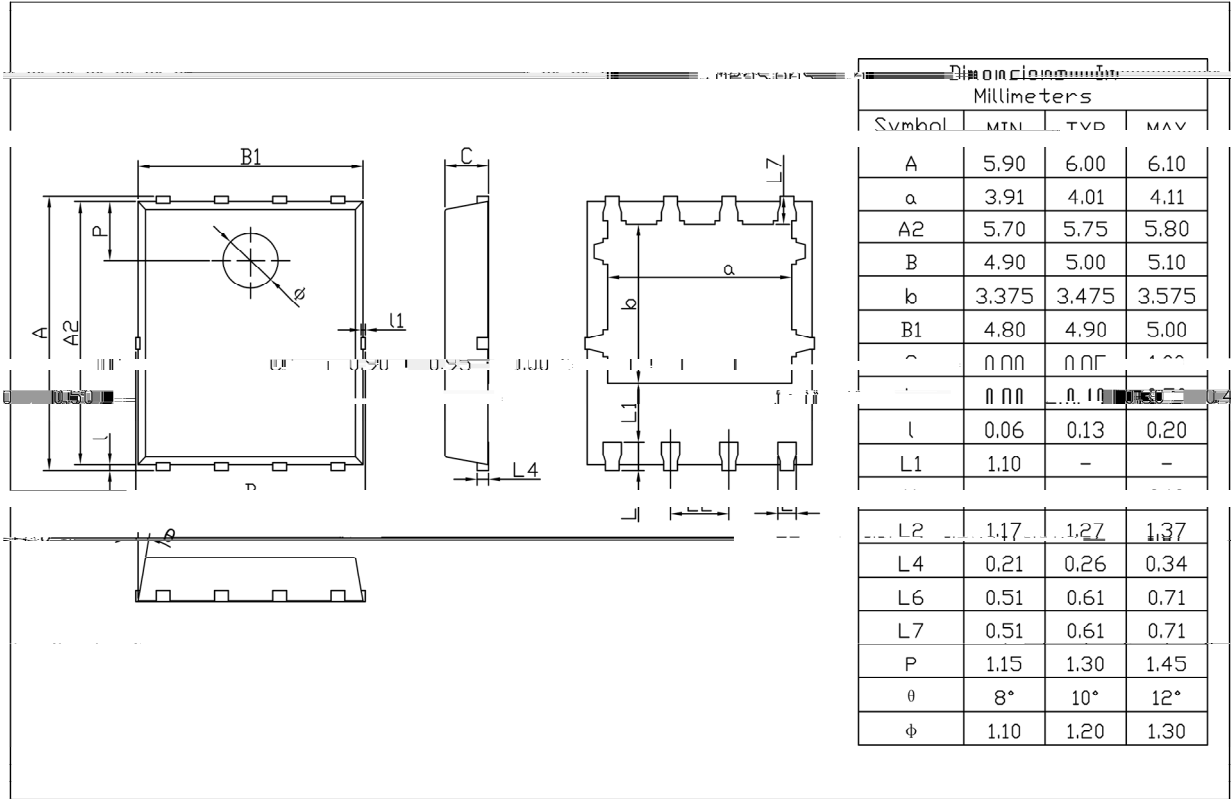
/ Electrical Characteristic Curve



**/ Package Dimensions**

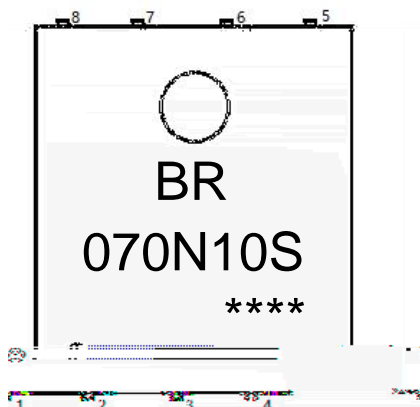
PDFN5 X6

Unit:mm



Rev.01 202209

**/ Marking Instructions**

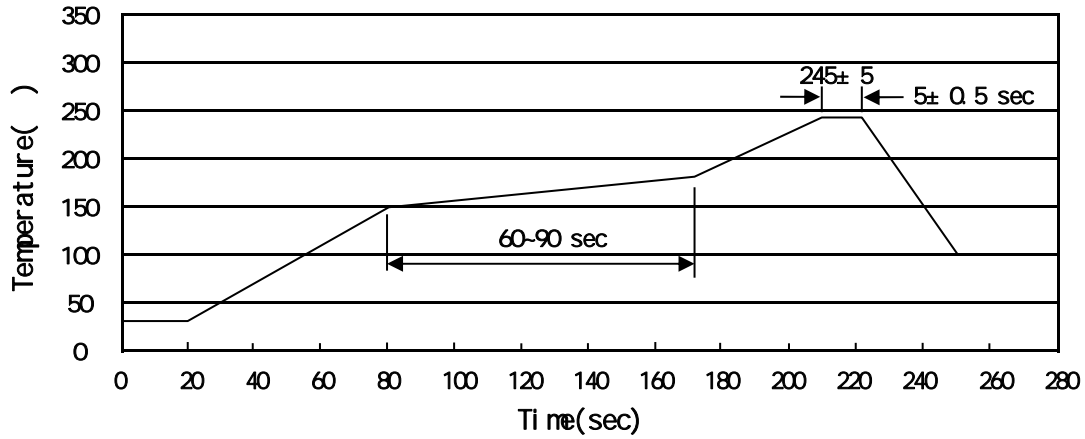


070N10S

Note

BR	Company Code
070N10S	Product Type Code
****.	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 <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
PDFN5x6	5,000	2	10,000	6	60,000	13"x12	360x360x50	380x335x366

**/ Notices**