

# BRC500P10ZC

Rev.A Sep.-2023

DATA SHEET

## / Descriptions

PDFN5 6 MOS  
P-CHANNEL MOSFET in a PDFN5 6 Plastic Package.

## / Features

$V_{DS}(V)=-100V$   $I_D=-29A$   
 $R_{DS(ON)}@-10V<50m$  (Typ.42mR)  
 $R_{DS(ON)}@-4.5V<55m$  (Typ.45mR)  
HF Product.

## / Applications

Power Management of Industrial DC/DC Converter.

PIN1 2 3 S      PIN 4 G      PIN 5 6 7 8 D

## / Marking

See Marking Instructions.



@ f Parameter	... Z Symbol	y j Ú ^ Test Conditions	Â 4 › Min	Â ° › Typ	Â Ý › Max	% y Unit
Turn-On Delay Time	t <sub>d(on)</sub>	V <sub>GS</sub> =-10V    V <sub>DS</sub> =-50V R <sub>L</sub> =10 j    R <sub>GEN</sub> =3 j		6		ns
Turn-On Rise Time	t <sub>r</sub>			2.4		
Turn-Off Delay Time	t <sub>d(off)</sub>			19		

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ô ? d • Ž ¢ / Electrical Characteristic Curve

Ø □ = ) ϕ / Package Dimensions

, M y f / Marking Instructions

BR  
500P10  
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<sup>a</sup> ç y  
( 8 y                    , [ W A  
500P10 y            D } ° Z  
                                  ÿ D Z W A k š ÿ D Z J

Note y  
BR y                    Company Code  
500P10 y            Product Type Code  
\*\*\*\*:                    Lot No. Code, code change with Lot No

š WD t ... • Ž Ć ( x / ) / Temperature Profile for IR Reflow Soldering(Pb-Free)


ª Ć y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•D N ò i Ò 0 , † 2 ½10 - /sec.

Note:

1.Preheating:150~180 - , Time:60~90sec.

2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.

3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ » ] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 -

ž • y 10 r1 sec.

Temp.:260±5

Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL