

PDFN5×6            N            MOS

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

$V_{DS}(V)=-100V$              $I_D=-29A$

$R_{DS(ON)}@-10V<50m\Omega(Typ.42mR)$

$R_{DS(ON)}@-4.5V<55m\Omega(Typ.45mR)$

HF Product.

DC/DC

Power Management of Industrial DC/DC Converter.

PIN1   2   3   S

PIN 4   G

PIN 5   6   7   8   D

See Marking Instructions.



| @ f<br>Parameter    | ... Z<br>Symbol     | y i Ú ^<br>Test Conditions                                                                      | Â 4 ><br>Min | Á ° ><br>Typ | Â Ý ><br>Max | % y<br>Unit |
|---------------------|---------------------|-------------------------------------------------------------------------------------------------|--------------|--------------|--------------|-------------|
| Turn-On Delay Time  | t <sub>d(on)</sub>  | V <sub>GS</sub> =-10V    V <sub>DS</sub> =-50V<br>R <sub>L</sub> =10 Ω    R <sub>GEN</sub> =3 Ω |              | 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 □ = ) ¢ / Package Dimensions

, M y f / Marking Instructions

BR  
500P10  
\*\*\*\*

a ¢ y  
( 8 y                    , [ W A  
500P10 y                D } ° Z  
                              y                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)

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<sup>a</sup> 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