/ Descriptions

PDFN5Ö6 Ṃ Ł N ڜ ʃ ѽ Ẓ ٦
N-Channel MOSFET in a PDFN5×6 Plastic Package.

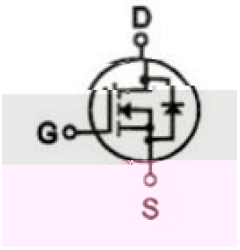
/ Features

V_{DS}(V)=60 V I_D=81A
$R_{DS(ON)}$@10V≤5.2mΩ(Typ. 4.9mƑ)
$R_{DS(ON)}$@4.5V≤7.5mΩ(Typ.6.8mR)
٠ ᵀ AEC-Q101 ‰ ڑ ڌ ، ό ļ ∂ ı ή ғ ß Qualified to AEC-Q101 Standards for High Reliability, HF Product.

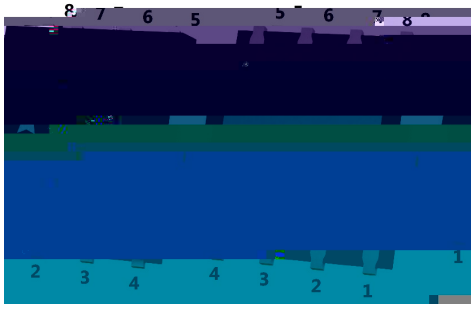
/ Applications

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Secondary Side Synchronous Rectification,DC-DC Converter,Motor Control,Load Switching, Meet the stringent requirements of automotive applications.

/ Equivalent Circuit



/ Pinning



PIN1 2 3 S PIN4 G PIN5 6 7 8 D

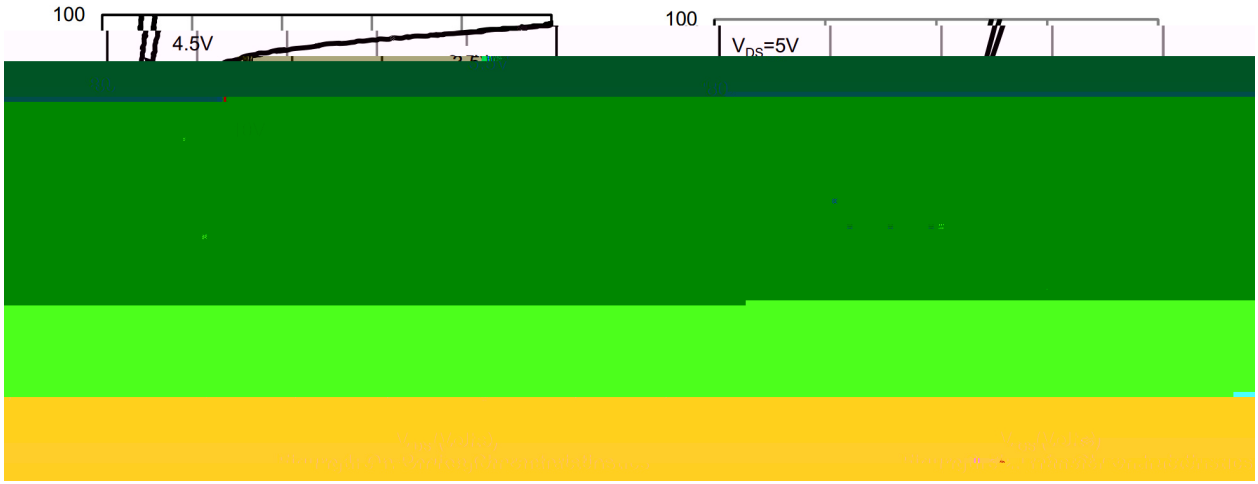
/ Marking

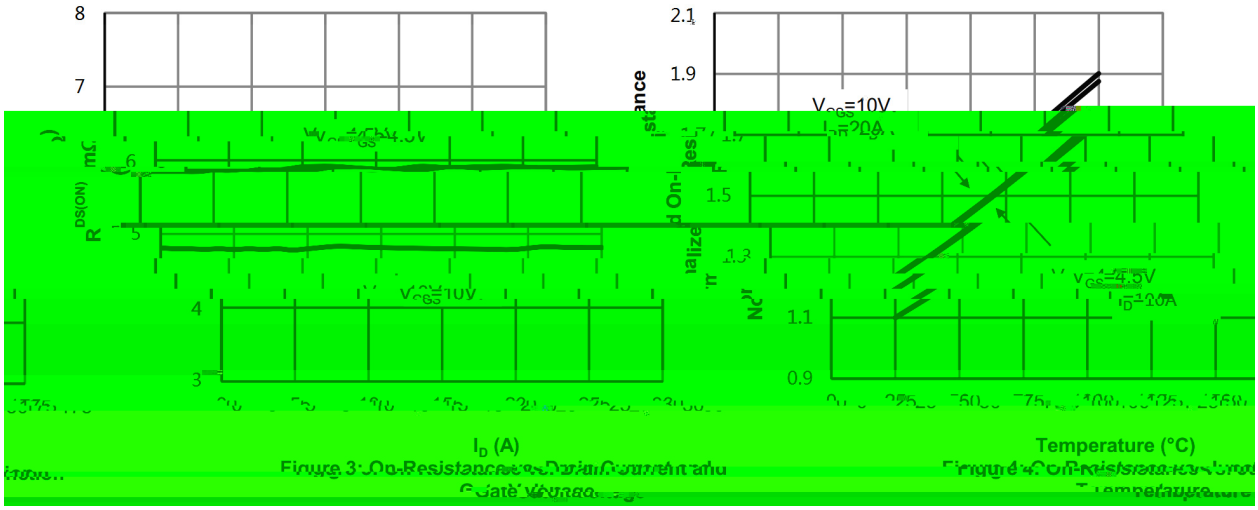
ȣ M ٦ ب ˝
See Marking Instructions.

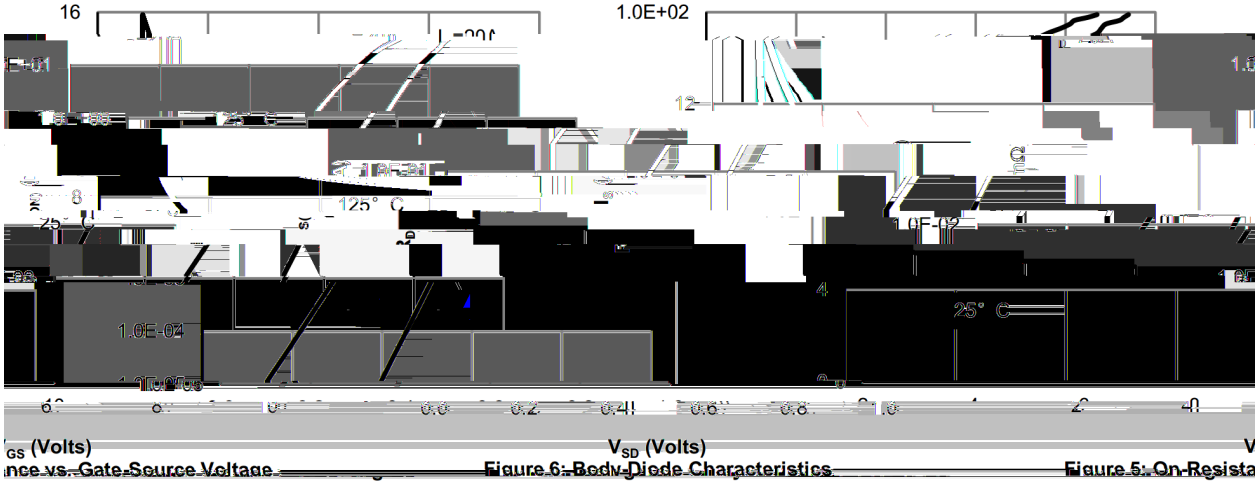
BRCS050N06SZCQ

Rev.A Feb.-2025

/ Electrical Characteristic Curve

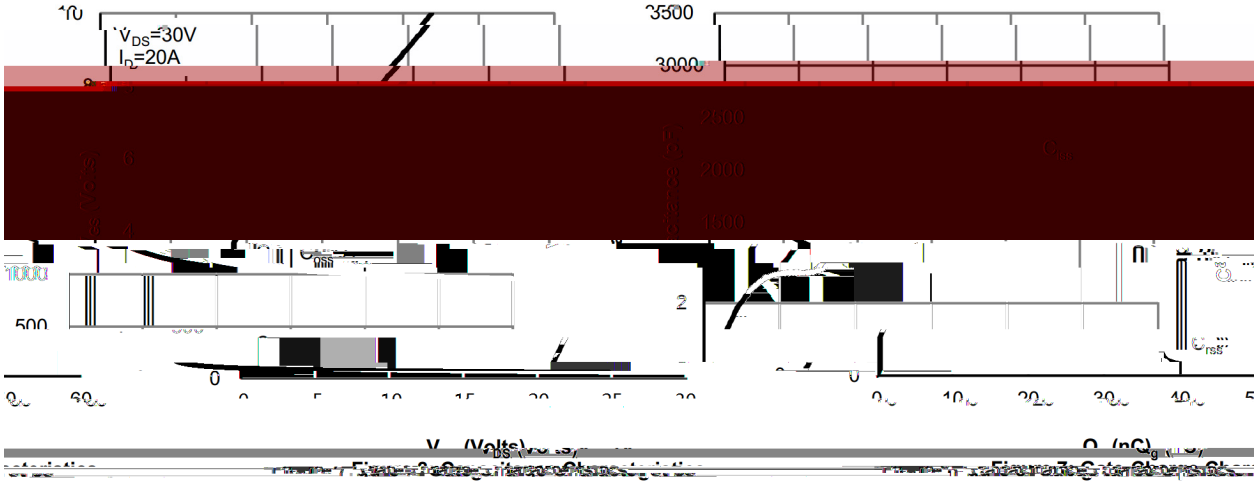




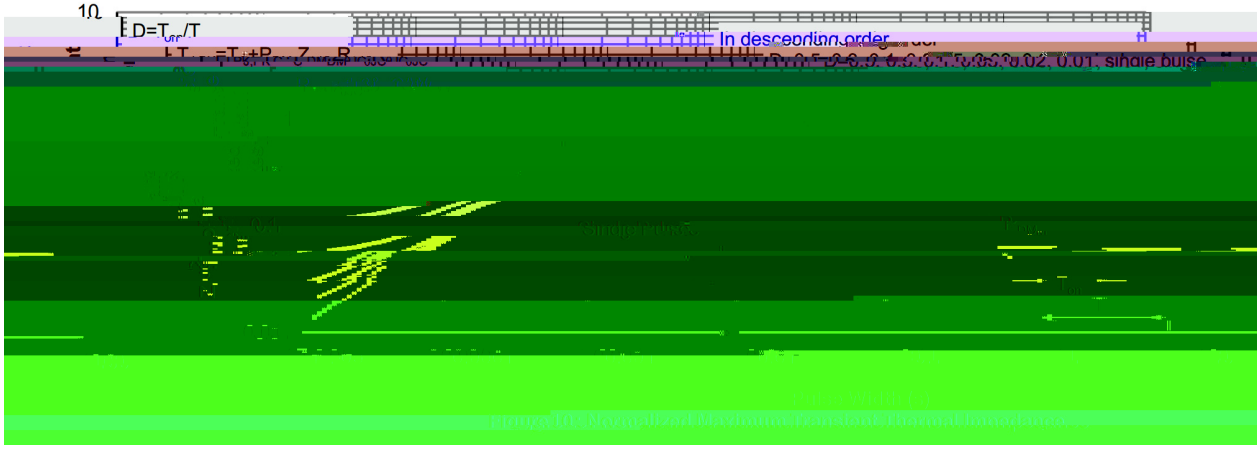


nce vs. Gate-Source Voltage Figure 6: Body Diode Characteristics Figure 5: On-Resista

/ Electrical Characteristic Curve

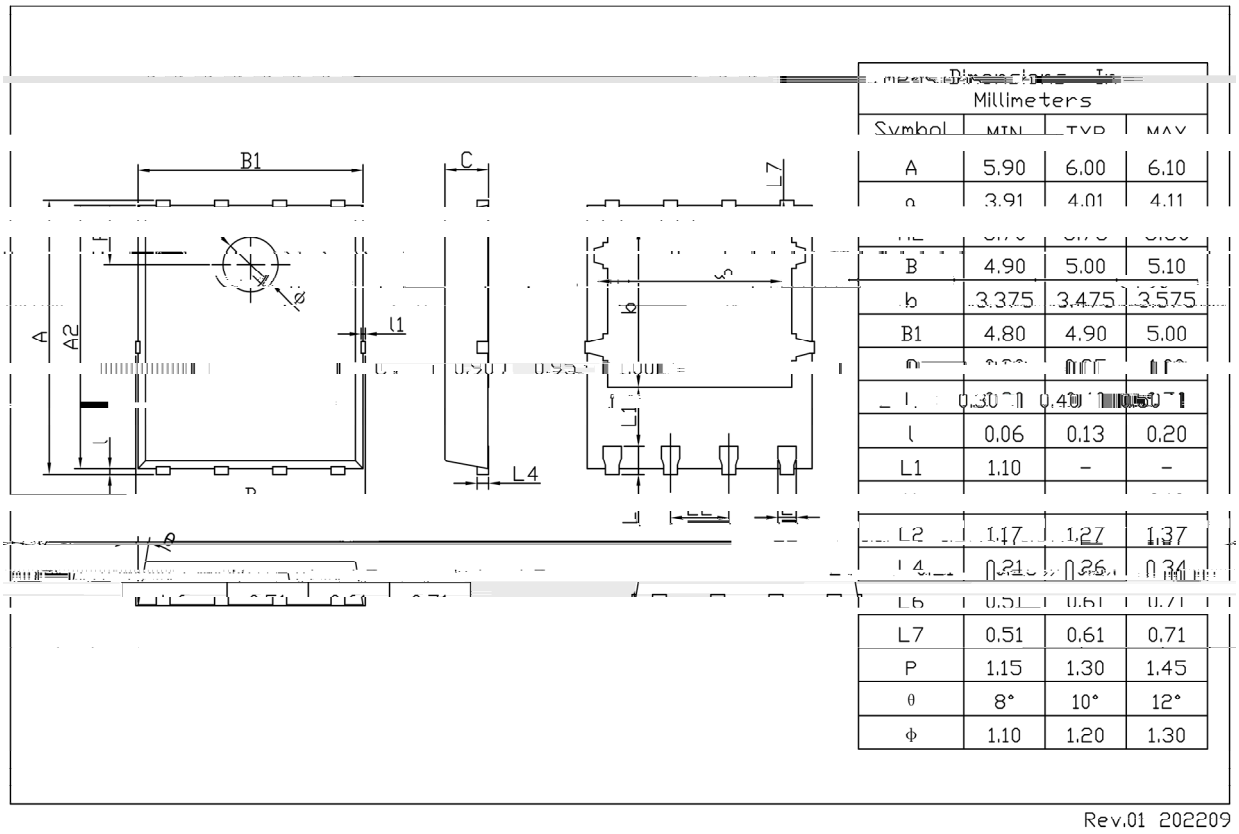






/ Package Dimensions

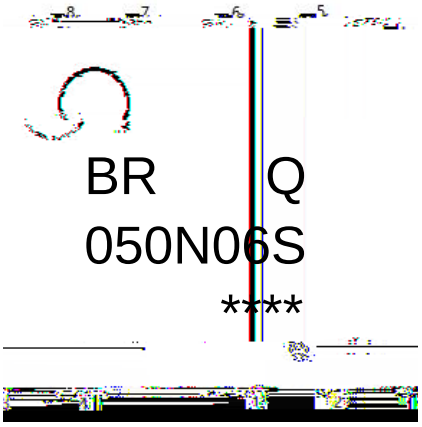
PDFN5×6 Unit:mm



Symbol	Millimeters MIN	TYP	MAX
A	5.90	6.00	6.10
B	4.90	5.00	5.10
b	3.375	3.475	3.575
B1	4.80	4.90	5.00
l	0.06	0.13	0.20
L1	1.10	–	–
L7	0.51	0.61	0.71
P	1.15	1.30	1.45
θ	8°	10°	12°
Φ	1.10	1.20	1.30

Rev.01 202209

/ Marking Instructions



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050N06S χ	ⅷ ȝ ᴺ Γъ
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Note χ	
BR χ	Company Code
Q:	Automobile halogen-free product Code
050N06S χ	Product Type Code
****:	Lot No. Code, code change with Lot No

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

