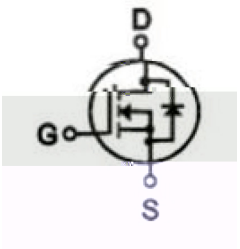
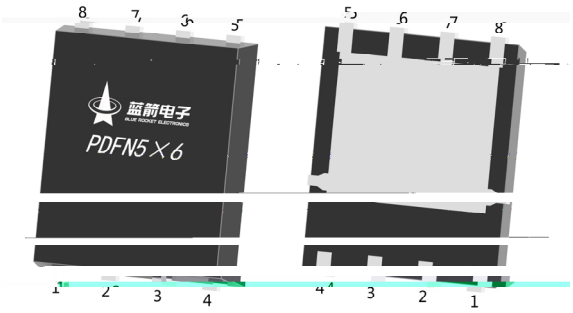
PDFN5×6 Ŀ N ǰ ٦
N-Channel MOSFET in a PDFN5×6 Plastic Package .

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ڃ ۔ ļ ψ
Low $R_{DS(ON)}$ to minimize conductive loss;low Gate Charge for fast switching;Low Thermal resistance; Qualified to AEC-Q101 Standards for High Reliability; HF Product.

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Battery Management, Meet the stringent requirements of automotive applications.

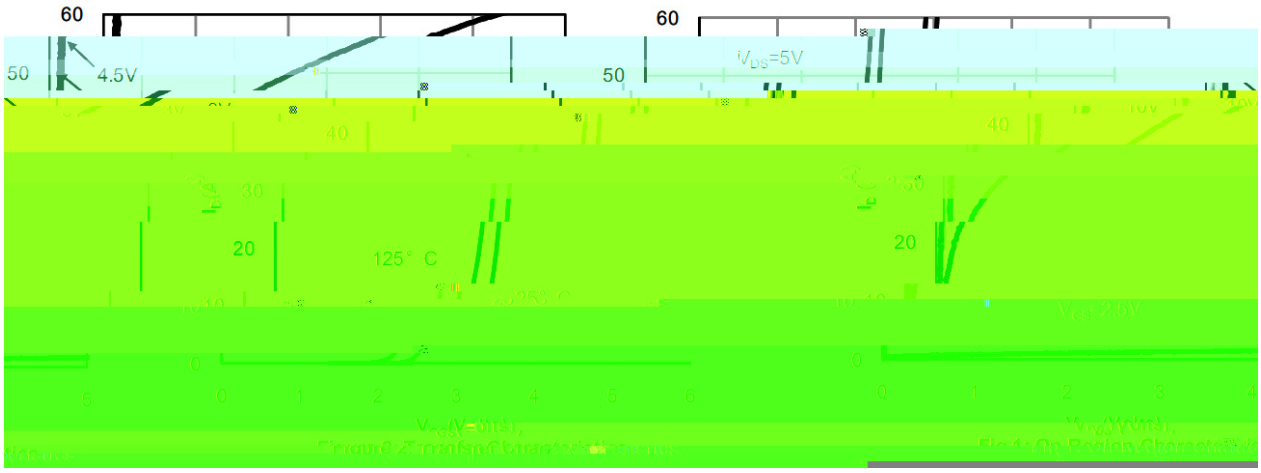




PIN1 2 3 S PIN4 G PIN5 6 7 8 D

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See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	40	V
Drain Current - Continuous	I_D	170	A
Drain Current – Pulsed	I_{DM}	340	A
Gate-Source Voltage	V_{GS}	± 20	V
Power Dissipation	$P_D(T_c=25\ \ )$	65	W
Single Pulse Avalanche Energy(L=0.5mH)	E_{AS}	358	mJ
Avalanche Current(L=0.5mH)	I_{AS}	32	A
Junction and Storage Temperature Range	T_j, T_{stg}	-55 to 150	
Thermal resistance, junction - case	$R_{\theta JC}$	1.9	/ W
Thermal resistance, junction - ambient	$R_{\theta JA}$		



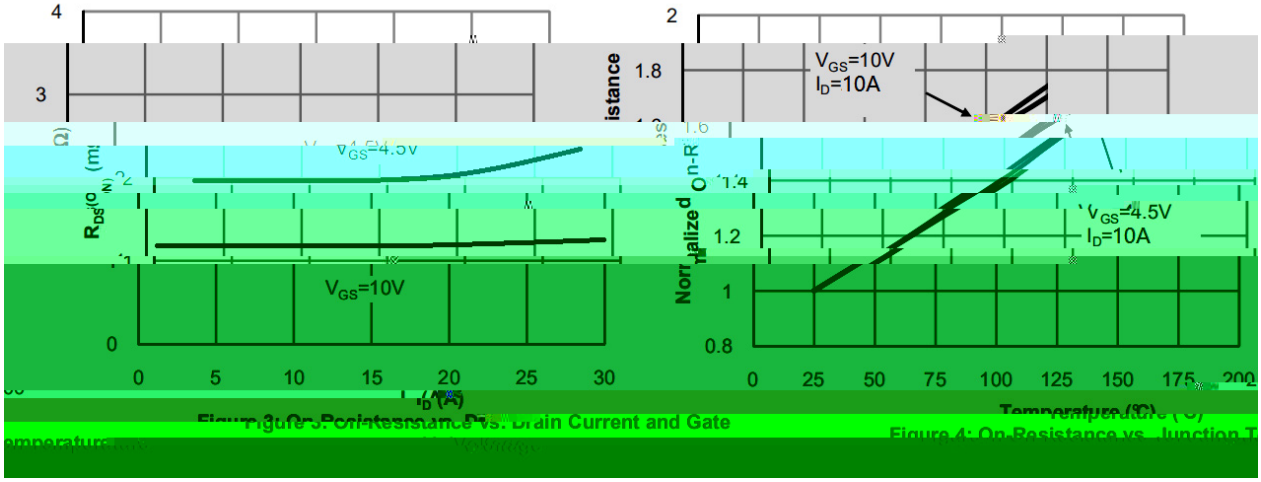
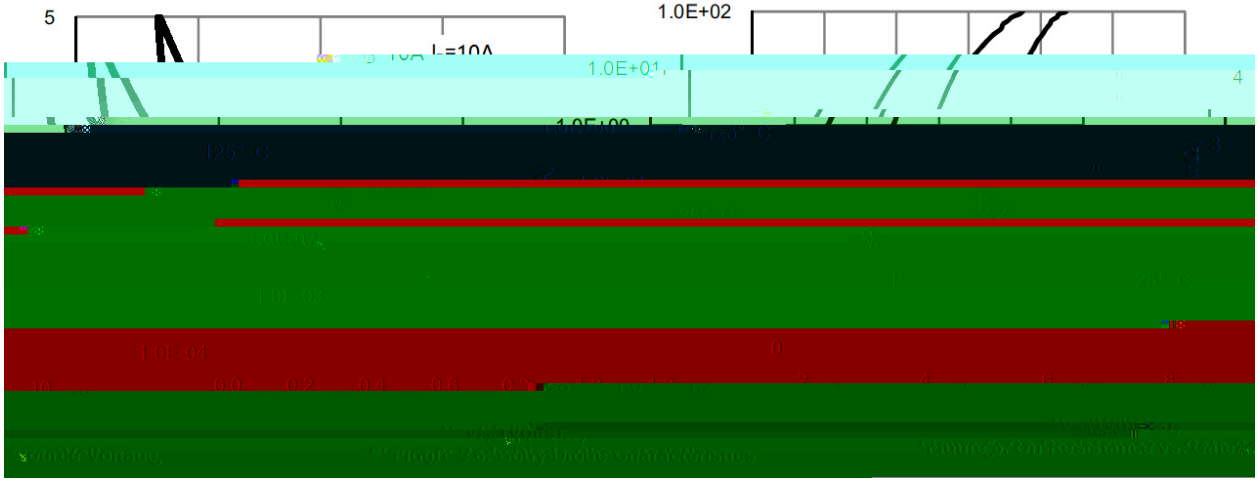


Figure 3: On-Resistance vs. Drain Current and Gate

Figure 4: On-Resistance vs. Junction T



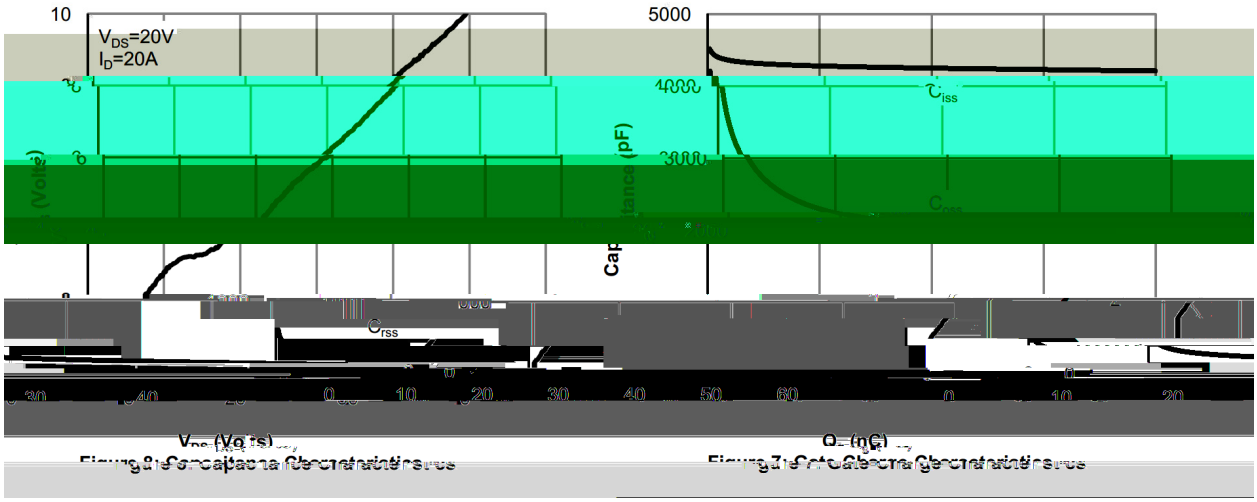
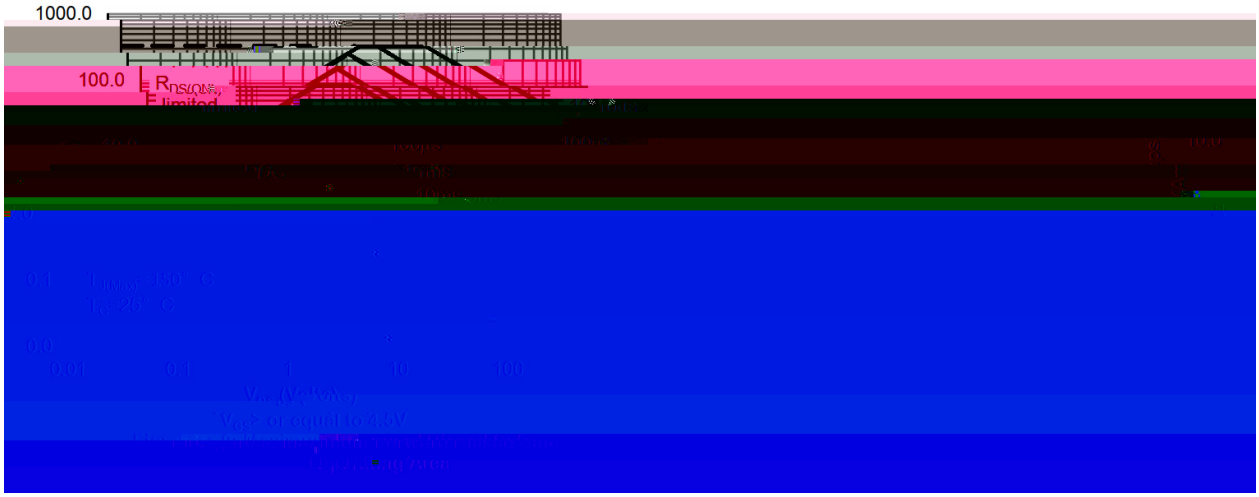
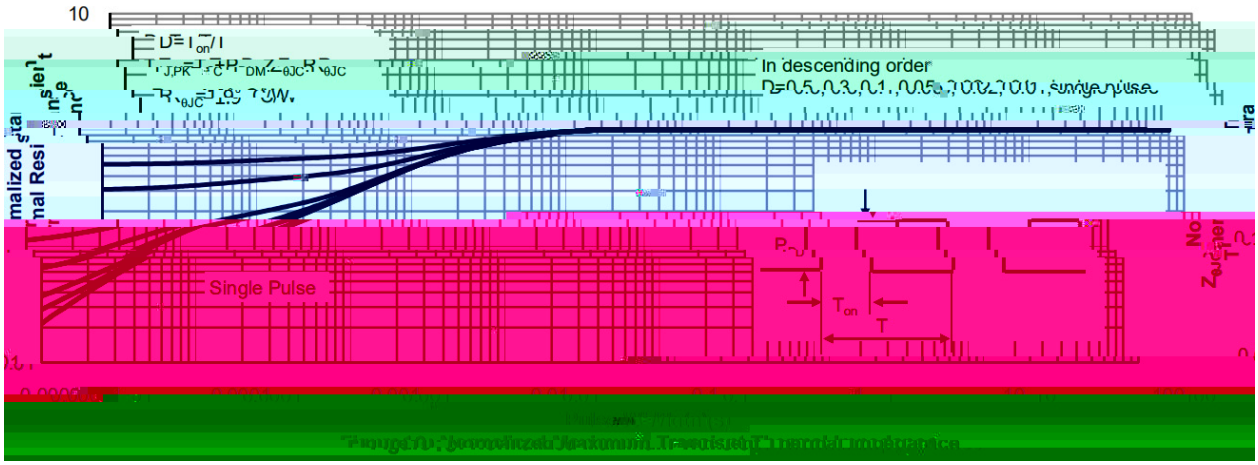


Figure 8: Capacitance Characteristics

Figure 7: Gate Charge Characteristics





Rev.B Feb.-2023



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Note χ

BR χ	Company Code
Q:	Automobile halogen-free product Code
015N04S χ	Product Type
****:	Lot No. Code, code change with Lot No

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1	أ ♬ □ 150 200 ژ 60 120sec;	1.Preheating:150~200 , Time:60~120sec.
2	□ 255±5 ژ ٨ 5±0.5sec;	2.Peak Temp.:255±5 , Duration:5±0.5sec.
3	١ ھ 2 10 /sec.	3. Cooling Speed: 2~10 /sec.

□ χ 260±5 ژ χ 10±

Note: