PDFN5×6 P

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

V_{DS} (V) = -100V I_D =-73A (V_{GS} = ±20V)

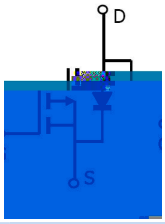
$R_{DS(ON)}$@-10V≤19mΩ(Typ.17mΩ)

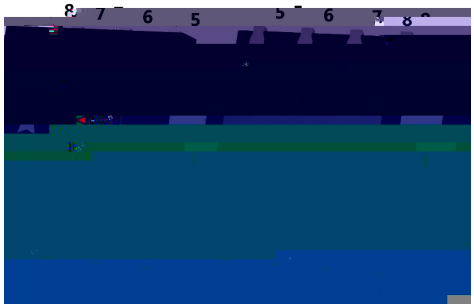
$R_{DS(ON)}$@-4.5V≤21mΩ(Typ.18.5mΩ)

HF Product.

DC-DC

Motor drivers, DC-DC Converte.





PIN1 2 3 S PIN4 G PIN5 6 7 8 D

Pin	极性
1	S
2	S
3	S
4	G
5	D
6	D

See Marking Instructions.

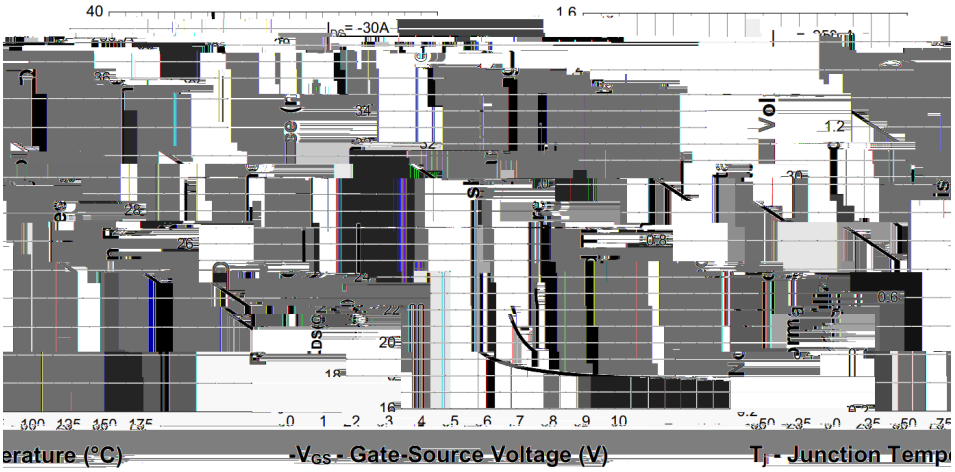
Rev.A Jun.-2026

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	I_D=-250μA,V_{GS}=0V	-100			V
Drain Leakage Current	I_{DSS}	V_{DS}=-80V,V_{GS}=0V			-1	μA
Gate Leakage current	I_{GSS}	V_{DS}=0V,V_{GS}=±20V			±100	nA
Gate Threshold Voltage	$V_{GS(th)}$	V_{DS}=V_{GS}, I_D=-250uA	-1.0		-2.5	V
On-State Resistance	$R_{DS(ON)}$[a]	V_{GS}=-10V,I_D=-30A		17	19	mΩ
		V_{GS}=-4.5V,I_D=-20A		18.5	21	
Diode Forward Voltage	V_{SD}[a]	I_S=-30A ,V_{GS}=0V			-1.3	V
Reverse Recovery Time	t_{rr}	I_D=-30 A, V_{GS}=0V dI$_{SD}$/dt=100A/μs		41		nS
Reverse Recovery Charge	Q_{rr}			75		nC
Input Capacitance	C_{iss}	V_{GS}=0,V_{DS}=-50V f=1MHz		14265		pF
Output Capacitance	C_{oss}			301		
Reverse Transfer Capacitance	C_{rss}			30		
Total Gate Charge	Q_g	V_{GS}=-10V,V_{DS}=-50V I_D=-30A		245		nC
Gate-Source Charge	Q_{gs}			56		
Gate-Drain Charge	Q_{gd}			27		
Turn-on Delay Time	$t_{d(ON)}$	V_{GS}=-10V,V_{DS}=-50V R_L=1.66Ω,R_G=3.9Ω I_D=-30A		13		ns
Turn-on Rise Time	t_r			49		
Turn-off Delay Time	$t_{d(OFF)}$			329		
Turn-off Fall Time	t_f			115		

Notes

a : Pulse test ; pulse width ≤ 300 μs, duty cycle ≤ 2%

b : Guaranteed by design, not subject to production testing



Threshold Voltage Figure 7: Transfer Characteristics Figure 8: Normalized

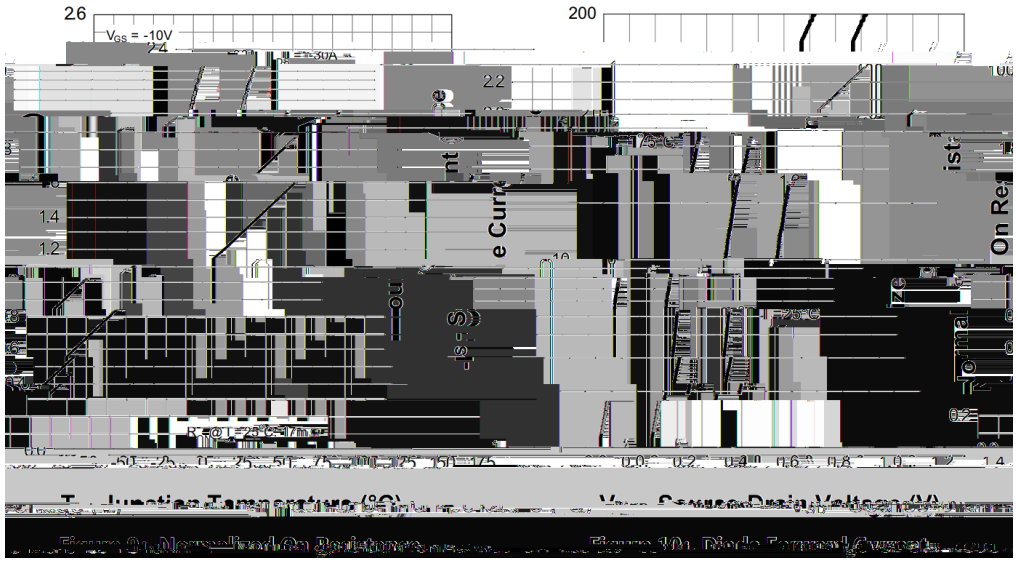


Figure 9: Normalized On Resistance Figure 10: Body Forward Current



T134.3321 0 Tm0 Tc0 7w( )Tj/TT4 1 52363321

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.

260±5	10±1 sec.	Temp.:260±5	Time:10±1 sec