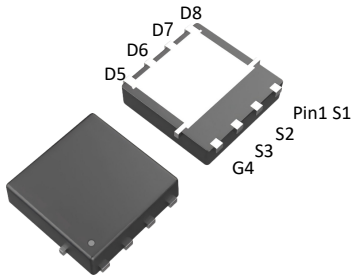
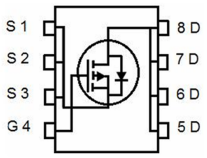
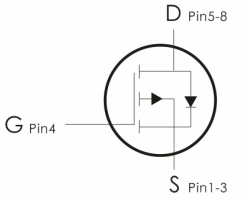
Description：

This P-Channel MOSFET uses advanced trench technology and design to provide excellent $R_{DS(on)}$ with low gate charge.

It can be used in a wide variety of applications.







Features：

1) V_{DS}=-30V,I_D=-30A,$R_{DS(ON)}$ <15mΩ @V_{GS}=-10V
2) Low gate charge.
3) Green device available.
4) Advanced high cell denity trench technology for ultra low $R_{DS(ON)}$.
   Excellent package for good heat dissipation.

Package Marking and Ordering Information：

Part NO.	Marking	Package	Packing
DOZ30P03	30P03	DFN3*3-8	5000 pcs/Reel

Absolute Maximum Ratings： (T_C=25℃ unless otherwise noted)

Symbol	Parameter	Ratings	Units
V_{DS}	Drain-Source Voltage	-30	V
V_{GS}	Gate-Source Voltage	±20	V
I_D	Continuous Drain Current-T_C=25℃	-30	A
	Continuous Drain Current-T_C=100℃	-24	
I_{DM}	Pulsed Drain Current	-160	
P_D	Power Dissipation-T_C=25℃	31	W
T_J, T_{STG}	Operating and Storage Junction Temperature Range	-55 to +150	℃

Thermal Characteristics：

Symbol	Parameter	Max	Units
$R_{\theta JC}$	Thermal Resistance,Junction to Case	3.2	℃/W
$R_{\theta JA}$	Thermal Resistance,Junction to Ambient	56	℃/W

Electrical Characteristics: (T_C=25℃ unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
Off Characteristics						
BV_{DSS}	Drain-Sourtce Breakdown Voltage	V_{GS}=0V,I_D=250μA	-30	---	---	V
I_{DSS}	Zero Gate Voltage Drain Current	V_{GS}=0V, V_{DS}=-30V	---	---	-1	μA
I_{GSS}	Gate-Source Leakage Current	V_{GS}=±20V, V_{DS}=0A	---	---	±100	nA
On Characteristics						
$V_{GS(th)}$	Gate-Source Threshold Voltage	V_{GS}=V_{DS}, I_D=250μA	-1	-1.65	-2.5	V
$R_{DS(ON)}$	Drain-Source On Resistance	V_{GS}=-10V,I_D=-1A	---	12	15	mΩ
		V_{GS}=-4.5V,I_D=-1A	---	15	23	
Dynamic Characteristics						
C_{iss}	Input Capacitance	V_{DS}=-15V, V_{GS}=0V, f=1MHz	---	1229	---	pF
C_{oss}	Output Capacitance		---	159	---	
C_{rss}	Reverse Transfer Capacitance		---	144	---	
Switching Characteristics						
$t_{d(on)}$	Turn-On Delay Time	V_{DD}=-15V R_{GEN}=3Ω, V_{GS}=-10V	---	17	---	ns
t_r	Rise Time		---	21	---	ns
$t_{d(off)}$	Turn-Off Delay Time		---	54	---	ns
t_f	Fall Time		---	41	---	ns
Q_g	Total Gate Charge	V_{GS}=-10V, V_{DS}=-15V, I_D=-10A	---	26.3	---	nC
Q_{gs}	Gate-Source Charge		---	5	---	nC
Q_{gd}	Gate-Drain “Miller” Charge		---	4.2	---	nC
Drain-Source Diode Characteristics						
V_{SD}	Diode Forward Voltage	V_{GS}=0V,I_S=-1A	---	-0.75	-1	V
I_S	Diode Forward Current	V_D=V_G=0V	---	---	-30	A
I_{SM}	Pulsed Source Current	V_D=V_G=0V	---	---	-160	A
Trr	Reverse Recovery Time	I_s=-10A , dI/dt=100A/μs , T_J=25℃	---	32	---	ns
Qrr	Reverse Recovery Charge		---	28	---	nC

Typical Characteristics: (T_C=25℃ unless otherwise noted)

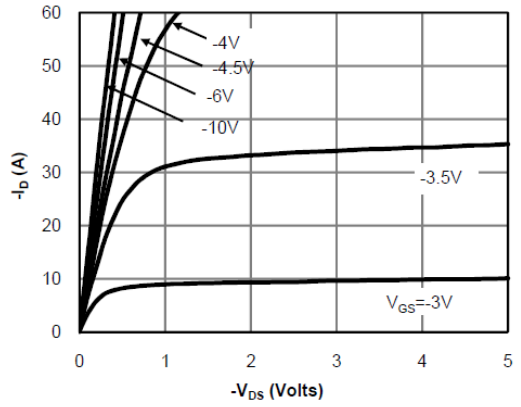


Figure 1. On-Regin Characteristics

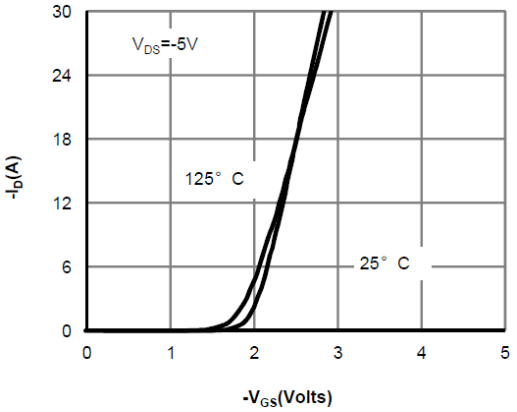


Figure 2. Transfer Characteristics

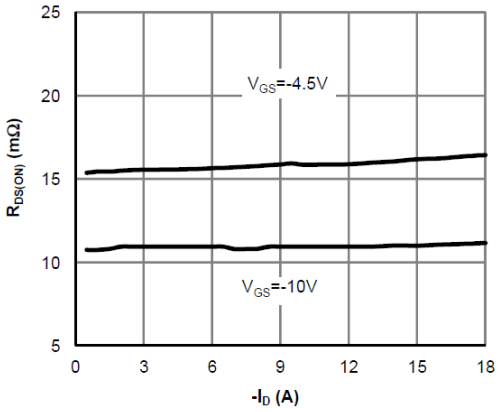


Figure 3. On-Resistance vs. Drain Current and Gate Voltage

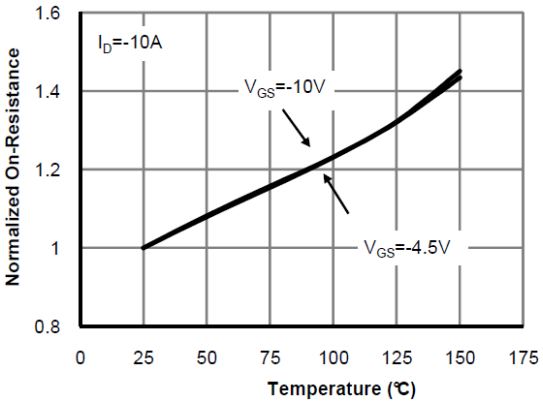


Figure 4. On-Resistance vs. Junction Temperature

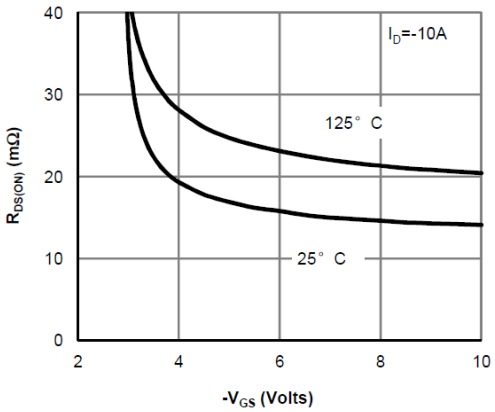


Figure 5. On-Resistance vs. Gate-Source Voltage

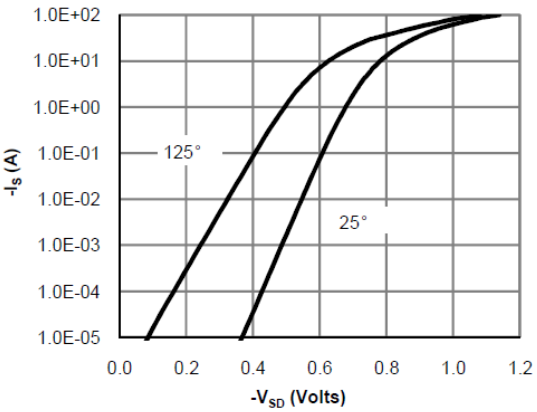


Figure 6. Body-Diode Characteristics

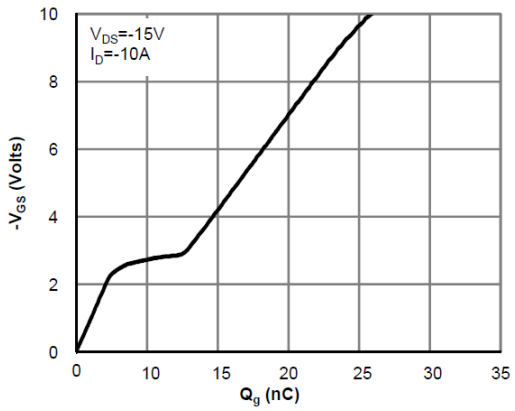


Figure 7. Gate-Charge Characteristics

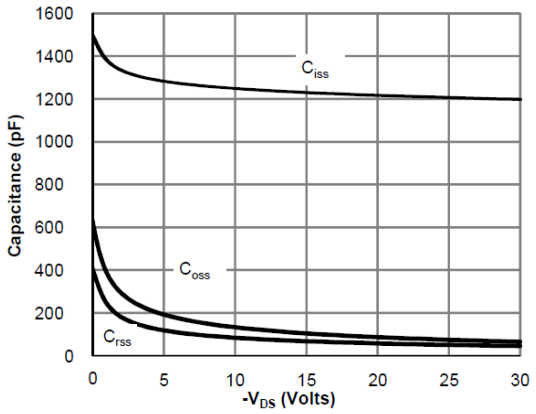


Figure 8. Capacitance Characteristics

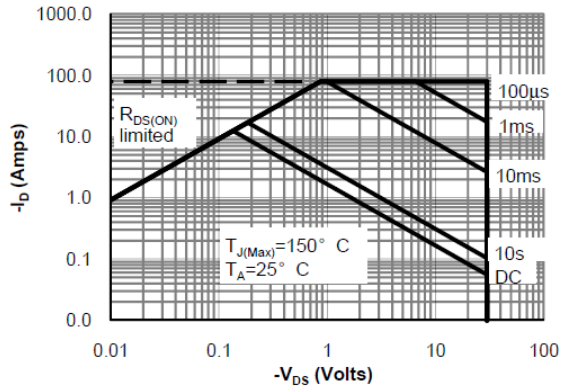


Figure 9. Maximum Forward Biased Safe Operating Area

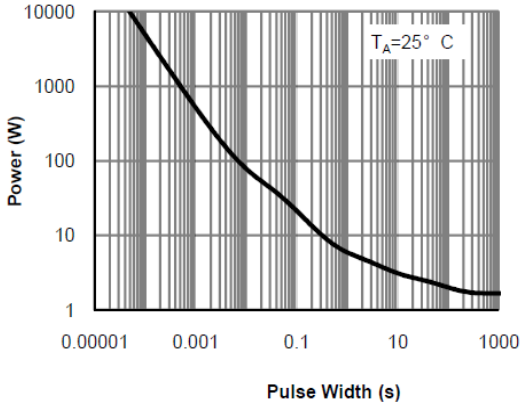


Figure 10. Single Pulse Power Rating Junction-to-Ambient

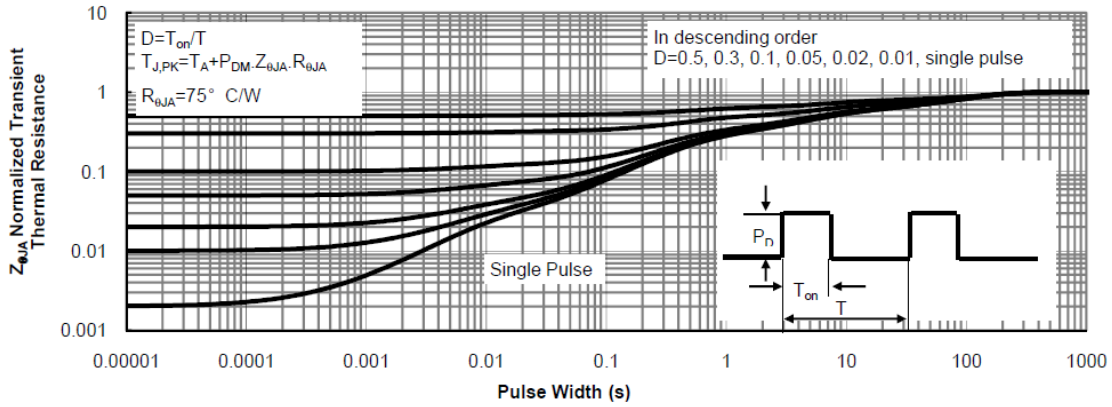
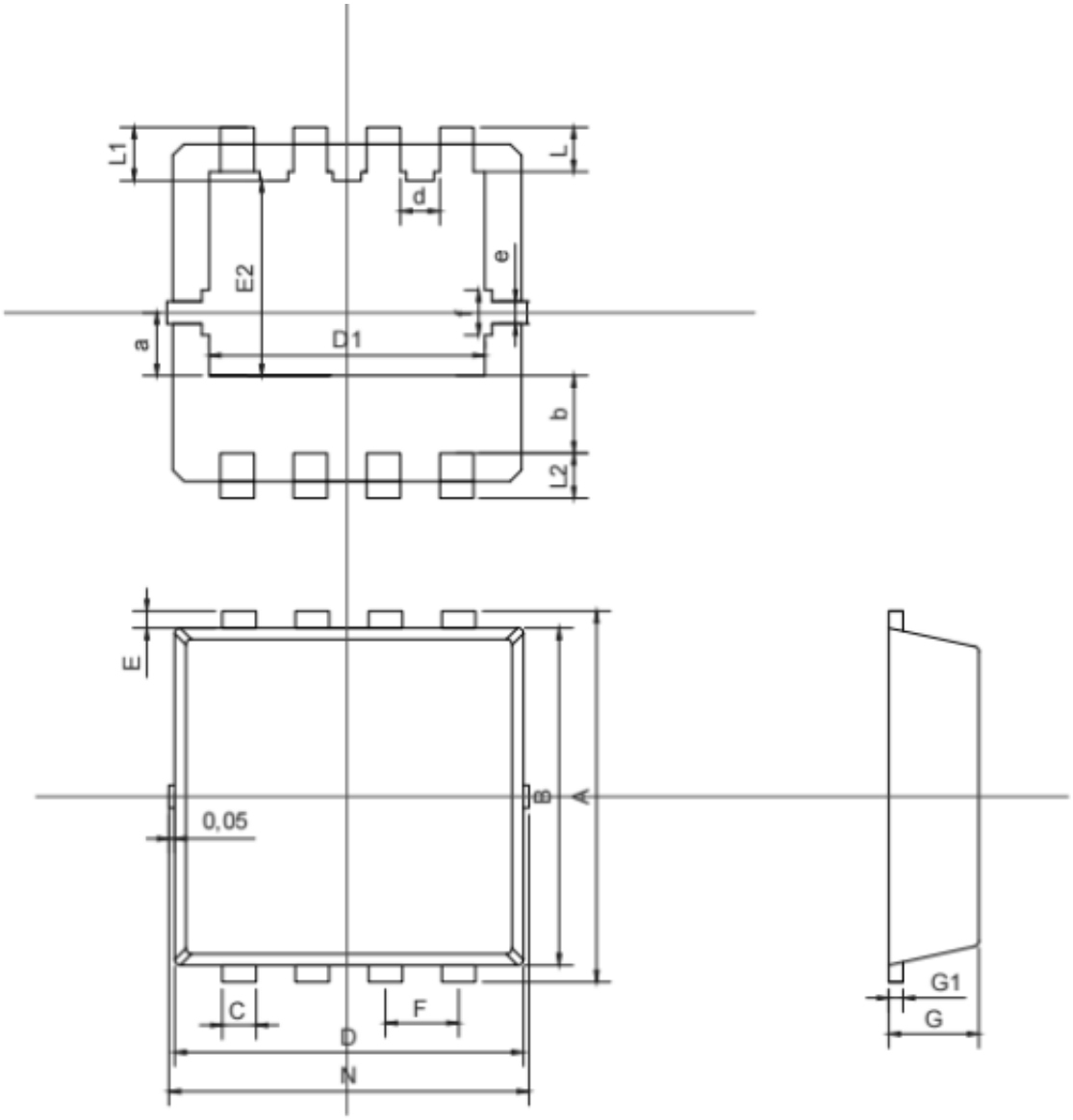


Figure 11. Normalized Maximum Transient Thermal Impedance

DFN3X3-8 Package Information：



Dimensions

Unit	A	B	C	D	E	F	G	G1	D1	L	N	E2	L1	L2	a	b	d	e	f	n
mm	3.25 (3.35) 3.45	2.95 (3.05) 3.15	0.25 (0.30) 0.35	3.05 (3.10) 3.15	0.12 (0.15) 0.20	– (0.65) –	0.75 (0.80) 0.85	0.135 (0.15) 0.17	2.40 (2.45) 2.50	0.365 (0.41) 0.565	3.15 (3.20) 3.25	1.685 (1.73) 1.785	0.43 (0.48) 0.53	0.35 (0.40) 0.45	0.515 (0.56) 0.615	0.635 (0.68) 0.735	0.35 (0.40) 0.45	0.17 (0.20) 0.25	0.37 (0.40) 0.45	2.08 (2.58) 3.08

Marking Information：

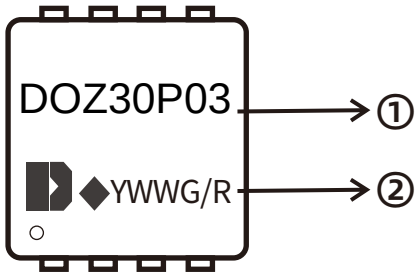
①. Part NO.

②. Date Code(YWWG / R)

Y：Year Code，last digit of the year

WW：Week Code(01-53)

G/R：G(Green) /R(Lead Free)



Previous Version

Version	Date	Subjects (major changes since last revision)
1.2	2026-05-11	Release of final version

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