



60V 22mΩ N-Ch Power MOSFET

Features

- Low $R_{DS(ON)}$
- Low Gate Charge
- 100% UIS Tested, 100% R_g Tested
- Pb-free Lead Plating
- Halogen-free and RoHS-compliant

Product Summary

Parameter	Value	Unit
V_{DS}	60	V
$V_{GS(th)}$	1.7	V
I_D (@ $V_{GS} = 10V$) ⁽¹⁾	25	A
$R_{DS(ON)}$ (@ $V_{GS} = 10V$)	22	mΩ
$R_{DS(ON)}$ (@ $V_{GS} = 4.5V$)	28	mΩ

Applications

- Power Management in Telecom., Industrial Automation, CE
- Motor Driving in Power Tool, E-vehicle, Robotics
- Current Switching in DC/DC & AC/DC (SR) Sub-systems

PDFN5x6-8L

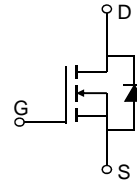
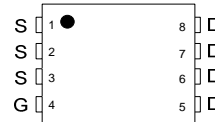
Top View



Bottom View

Pin Configuration

Top View

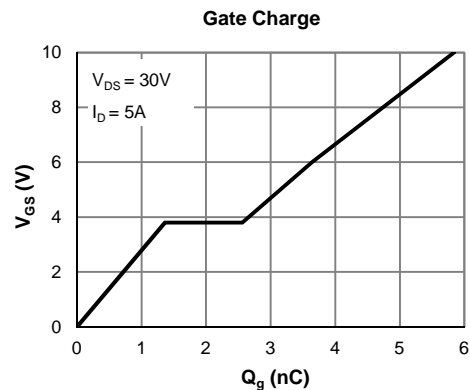
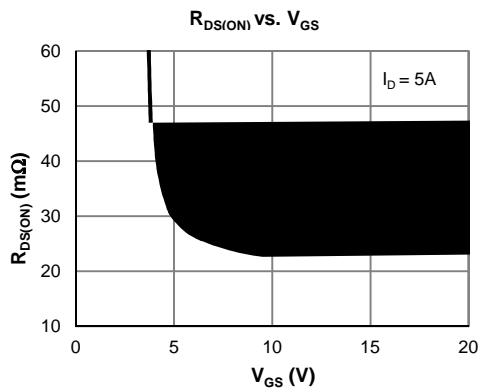


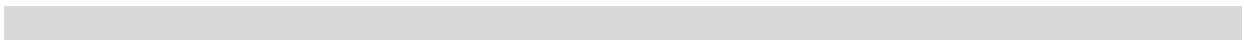
Ordering Information

Device	Package	# of Pins	Marking	MSL	T_J (°C)	Media	Quantity (pcs)
JMSL0630AG-13	PDFN5x6-8L	8	SL0630A	1	-55 to 150	13-inch Reel	5000

Absolute Maximum Ratings (@ $T_A = 25^\circ C$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Drain-to-Source Voltage	V_{DS}	60	V
Gate-to-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current ⁽¹⁾	I_D	$T_C = 25^\circ C$	25
		$T_C = 100^\circ C$	16.4
Pulsed Drain Current ⁽²⁾	I_{DM}	61	A
Avalanche Energy ⁽³⁾	E_{AS}	13.5	mJ
Power Dissipation ⁽⁴⁾	P_D	$T_C = 25^\circ C$	35
		$T_C = 100^\circ C$	14.2
Junction & Storage Temperature Range	T_J, T_{STG}	-55 to 150	°C





Typical Electrical & Thermal Characteristics



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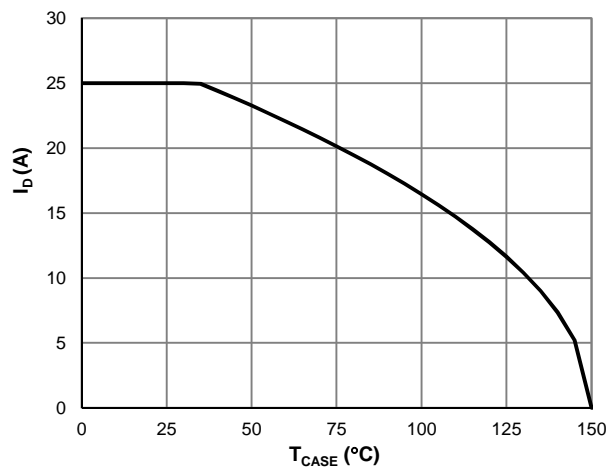


Figure 9: Current De-rating

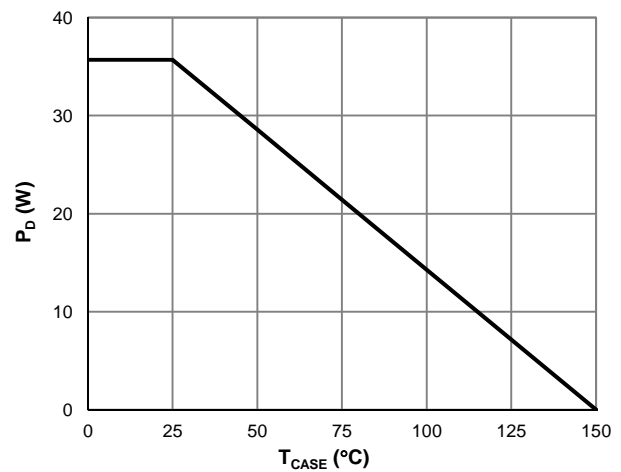


Figure 10: Power De-rating

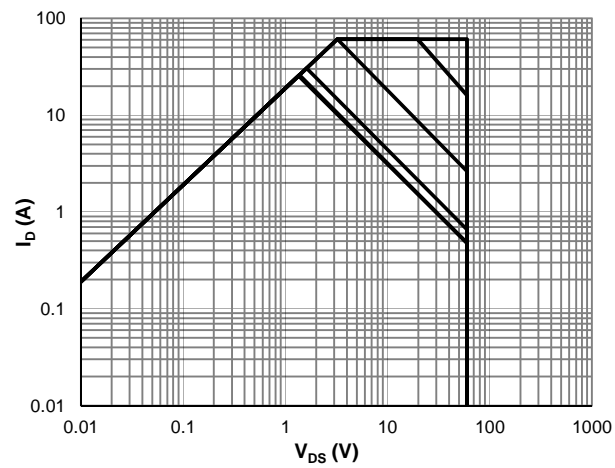
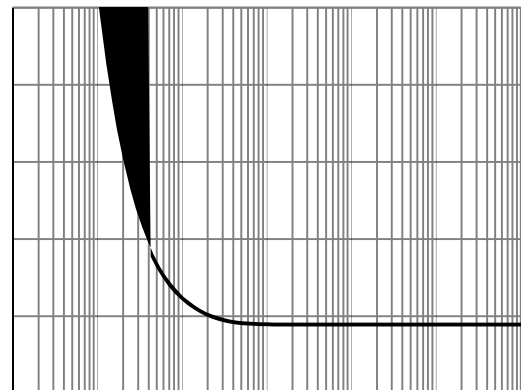
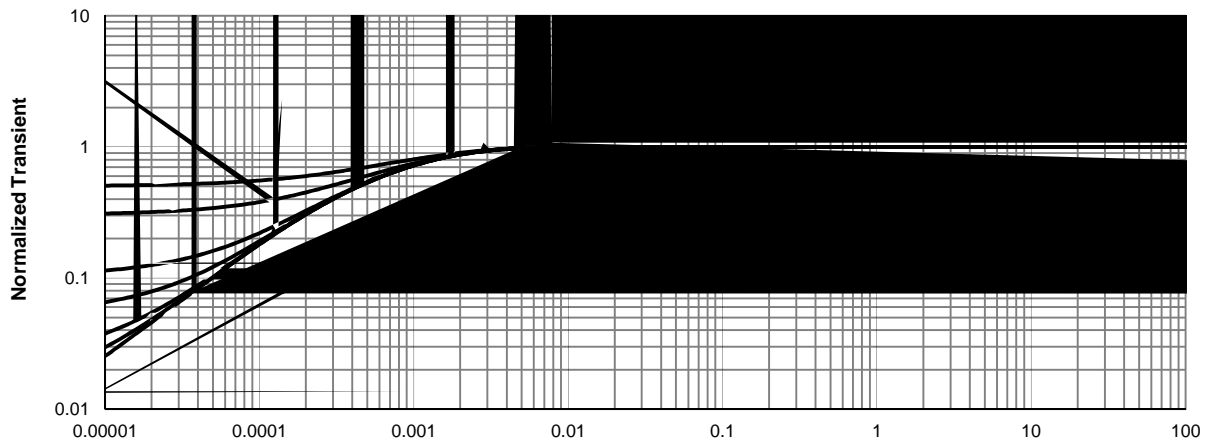


Figure 11: Maximum Safe Operating Area



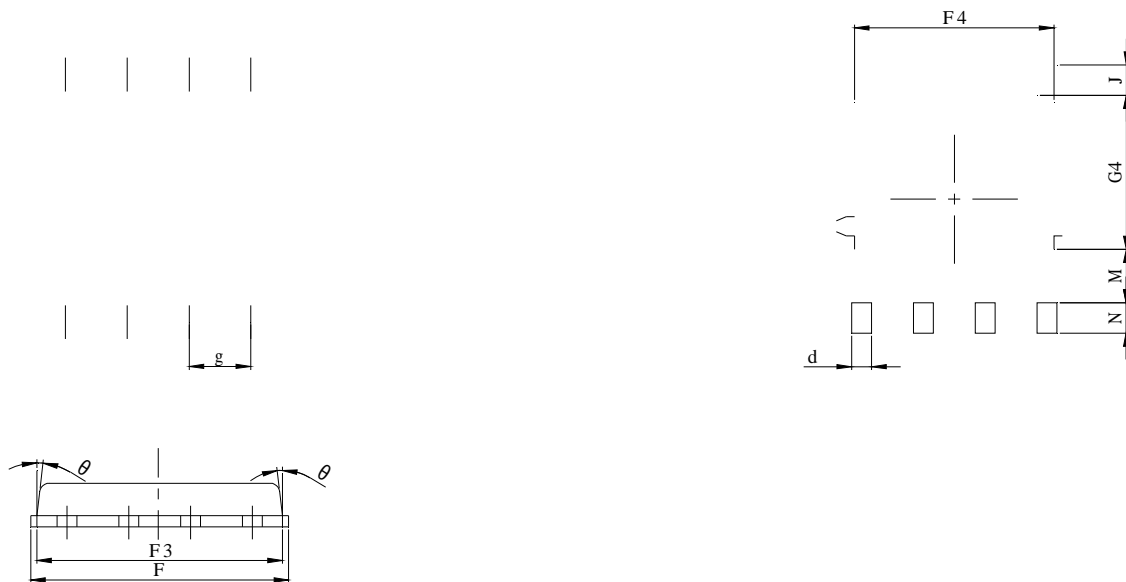


Typical Electrical & Thermal Characteristics





PDFN5x6-8L Package Information



FKO0	OKP0	OKNNKOGVGT	OCZ0
C	20; 2	3022	3032
d	2053	2063	2073
e	2042	2047	2052
F	7022	7042	7062
F3	60; 7	7027	7037
F4	6022	6032	6042
G	8027	8037	8047
G3	7072	7082	7092
G4	5064	5075	5085
g		3049DUE	
J	2082	2092	20: 2
N	2072	2092	20: 2
M		3045"TGH	
θ	/	/	32Å

Tgeq o o gp fgf"Uqf gtpi"Hqqvrtkpv