JMSL0630AU

N-Ch Power MOSFET

Product Summary

Parameter	Value	Unit
V_{DS}	60	V
$V_{GS(th)}$	1.7	V
I_D (@ V_{GS} = 10V) (1)	20	A
$R_{DS(ON)}$ (@ V_{GS} = 10V)	22	mΩ
$R_{DS(ON)}$ (@ V_{GS} = 4.5V)	30	mΩ

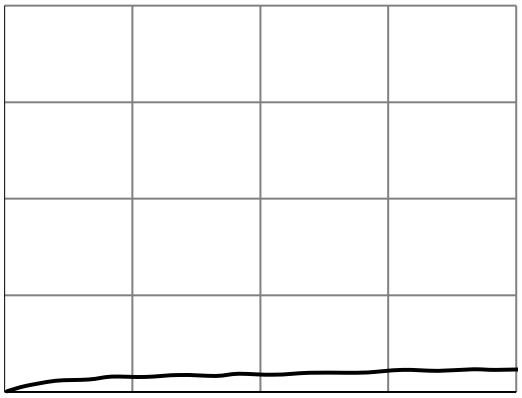
ns	Marking	MSL	T_J (°C)	Media	Quantity (pcs)
	SL0630A	1	-55 to 150	13-inch Reel	5000

s otherwise specified)

ol	Value	Unit
	60	V
	±20	V
	19.8	A
	12.5	
	46	A
	13.5	mJ
	20	W
	8.0	
TG	-55 to 150	°C

	Symbol		Min.	Typ.	Max.	Unit
	$V_{(BR)DSS}$		60			V
		V_{DS} = 48V, V_{GS} = 0V			1.0	
		T_J = 55°C			5.0	
	I_{GSS}				±100	nA
Gate Threshold Voltage	$V_{GS(th)}$		1.2	1.7	2.5	V
				22	27	mΩ
				30	38	mΩ
	g_{FS}			17.0		S
	V_{SD}			0.75	1.0	V
	I_S				20	A
	C_{iss}			288		pF
	C_{oss}			92		pF
	C_{rss}			22		pF
	R_g			5.0		Ω
	Q_g			5.8		nC
	Q_g					

Typical Electrical & Thermal Characteristics



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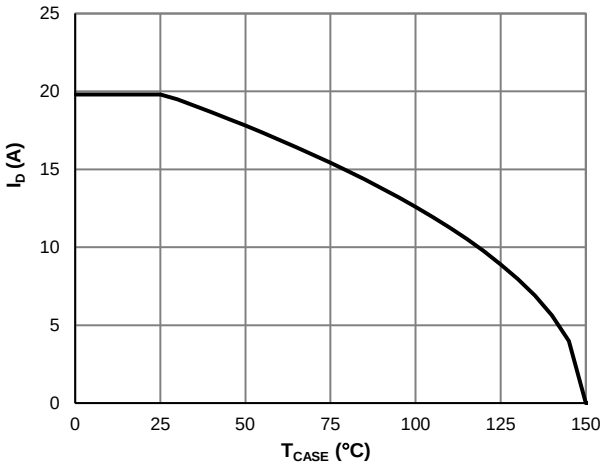


Figure 9: Current De-rating

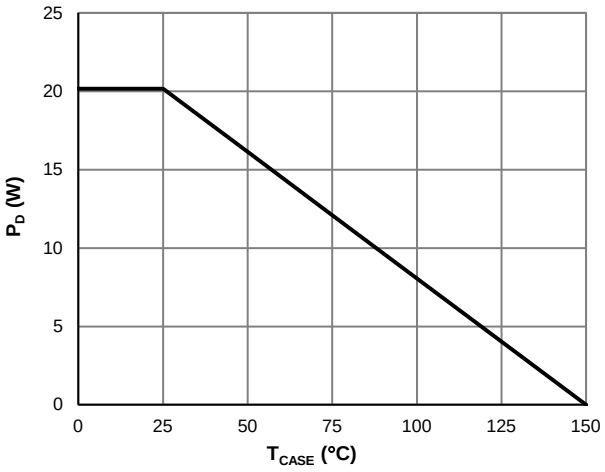


Figure 10: Power De-rating

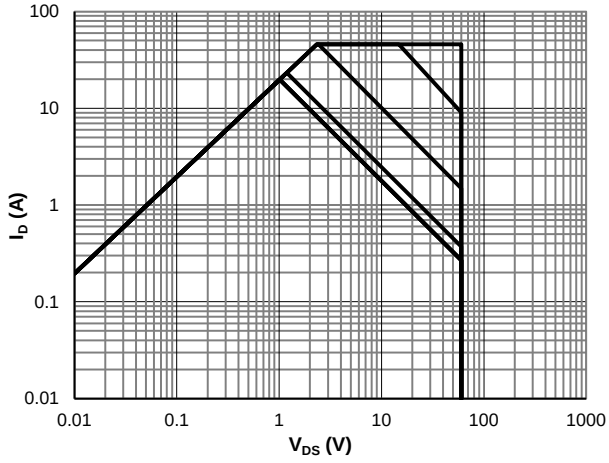
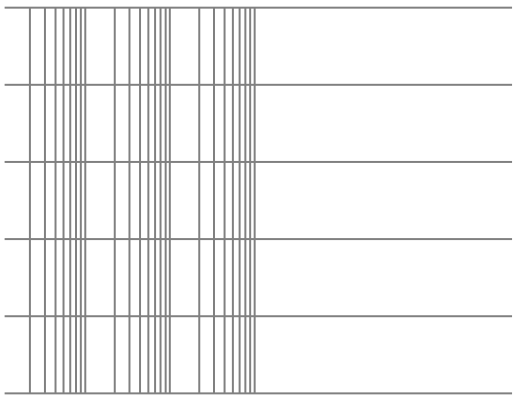
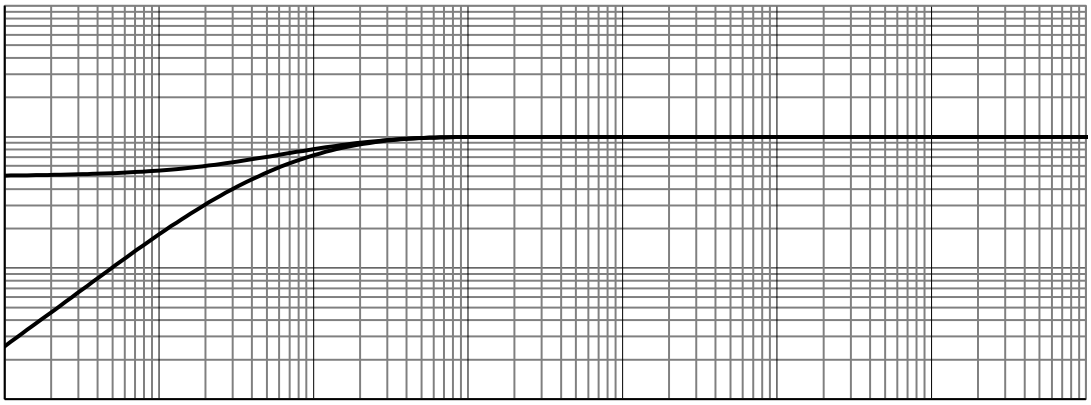


Figure 11: Maximum Safe Operating Area



Typical Electrical & Thermal Characteristics



PDFN3x3-8L Package Information

