



60V 7.4mΩ 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

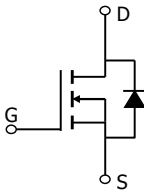
Product Summary

Parameter	Value	Unit
V_{DS}	60	V
$V_{GS(th_Typ)}$	1.6	V
I_D (@ $V_{GS} = 10V$) ⁽¹⁾	56	A
$R_{DS(ON_Typ)}$ (@ $V_{GS} = 10V$)	7.4	mΩ
$R_{DS(ON_Typ)}$ (@ $V_{GS} = 4.5V$)	9.5	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

TO-252-3L Top View

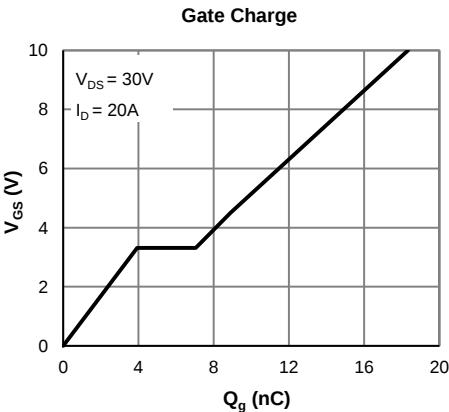
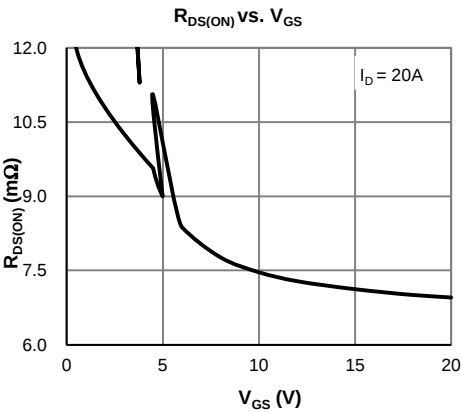


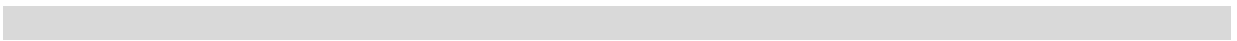
Ordering Information

Device	Package	# of Pins	Marking	MSL	T_J (°C)	Media	Quantity (pcs)
JMSL0609AK-13	TO-252-3L	3	SL0609A	1	-55 to 150	13-inch Reel	2500

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

Parameter	Symbol	Value	Unit
	V_{DS}		V
	V_{GS}		V
Pulsed Drain Current ⁽²⁾	I_{DM}		A
	E_{AS}		mJ
	T_J, T_{STG}		°C







Typical Electrical & Thermal Characteristics

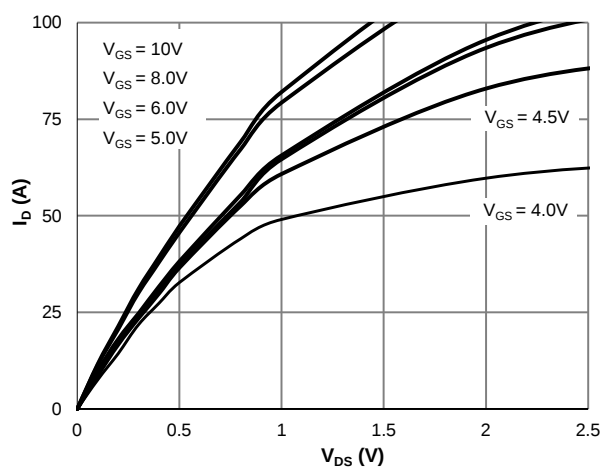


Figure 1: Saturation Characteristics

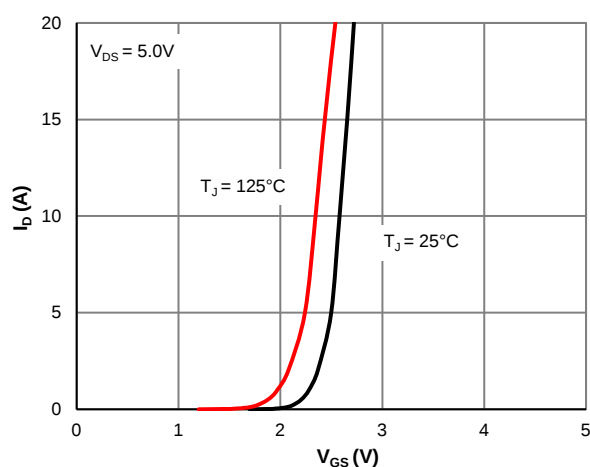
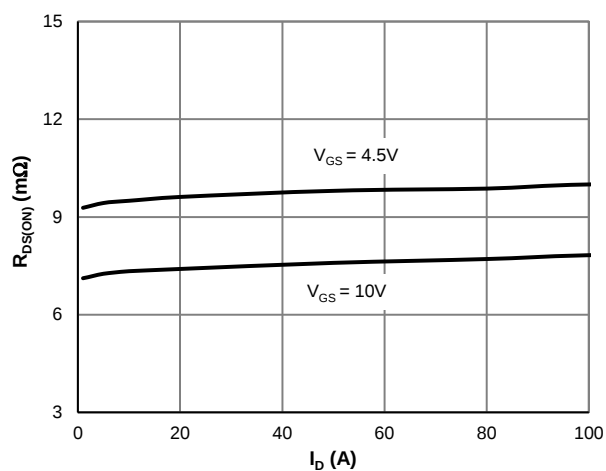
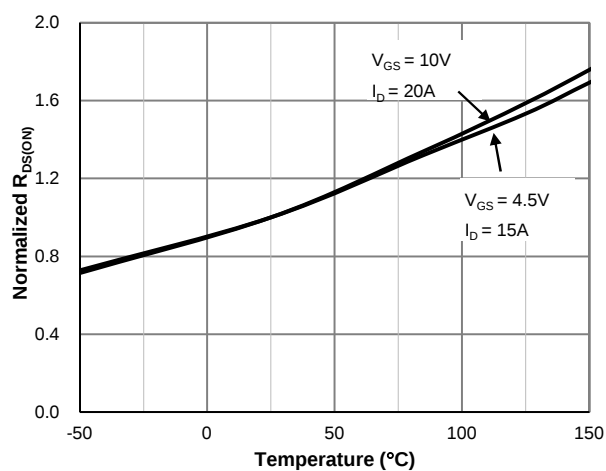
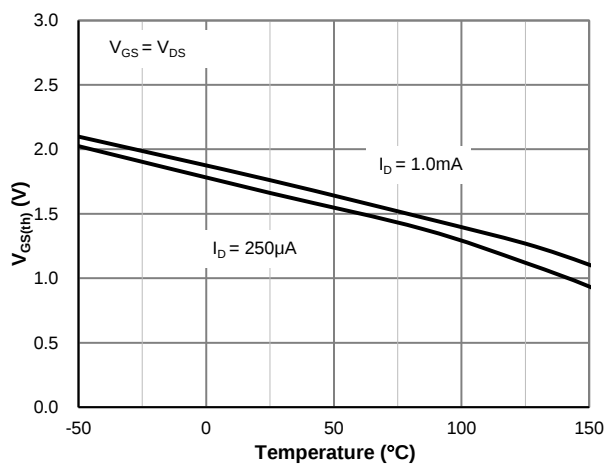
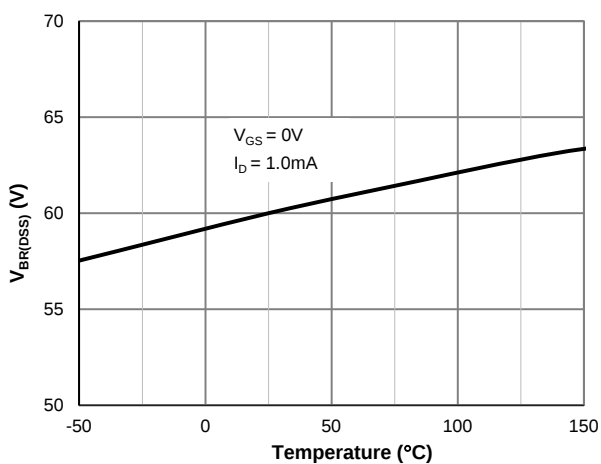
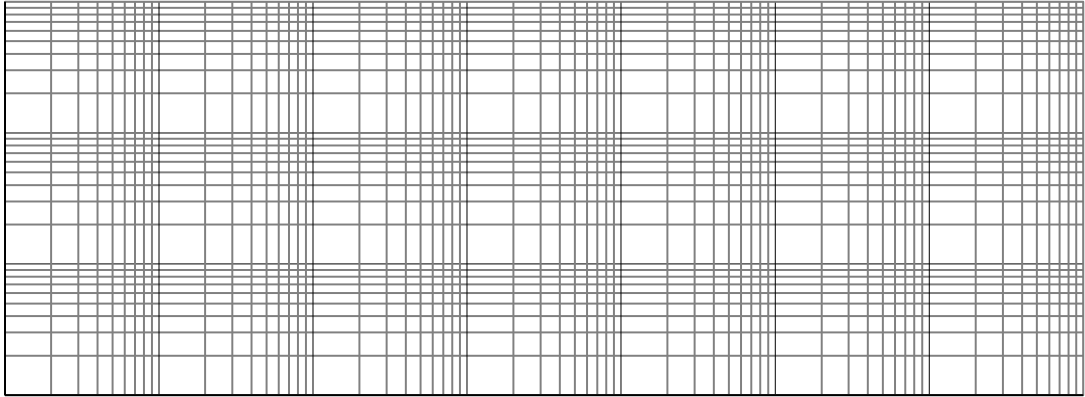


Figure 2: Transfer Characteristics

Figure 3: $R_{DS(ON)}$ vs. Drain CurrentFigure 4: $R_{DS(ON)}$ vs. Junction TemperatureFigure 5: $V_{GS(th)}$ vs. Junction TemperatureFigure 6: $V_{BR(DSS)}$ vs. Junction Temperature



Typical Electrical & Thermal Characteristics





TO-252-3L Package Information

