

APM2324A

N-Channel Enhancement Mode MOSFET

Feature

• 20V/3A, $R_{DS(ON)} = 80m\Omega(MAX)$ @VGS = 4.5V.

 $R_{DS(ON)} = 90m\Omega(MAX)$ @VGs = 2.5V.

- \bullet Super High dense cell design for extremely low RDS(ON) .
- Reliable and Rugged.
- SC-59 for Surface Mount Package.

Applications

- Power Management
- Portable Equipment and Battery Powered Systems.





Absolute Maximum Ratings TA=25 °C Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V_{DS}	20	V
Gate-Source Voltage	V _{GS}	± 8	V
Drain Current-Continuous	ID	3.0	А

Electrical Characteristics TA=25°C Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Тур.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	VGS=0V, ID=250µA	20	-	-	V
Zero-Gate Voltage Drain Current	IDSS	VDS=12V, VGS=0V	-	-	1	μΑ
Gate Body Leakage Current, Forward	IGSSF	VGS=8V, VDS=0V	-	-	100	nA
Gate Body Leakage Current, Reverse	IGSSR	VGS=-8V, VDS=0V	-	-	-100	nA
On Characteristics						
Gate Threshold Voltage	VGS(th)	VGS= VDS, ID=250µA	0.4	-	1.3	V
Static Drain-source	DDCCON	VGS =4.5V, ID =3.6A	-	70	80	mΩ
On-Resistance	RDS(ON)	VGS =2.5V, ID =3.1A	-	75	90	$m\Omega$
Drain-Source Diode Characterist	ics and Maximu	ım Ratings			-	
Drain-Source Diode Forward Voltage	VSD	VGS =0V, IS=0.94A			1.2	V



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Typical Characteristics

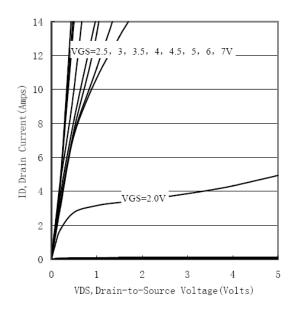


Figure 1. Output Characteristics

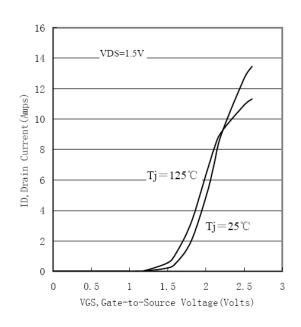


Figure 2. Transfer Characteristics

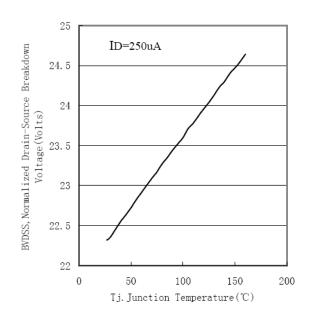


Figure 3. Breakdown Voltage Variation with Temperature

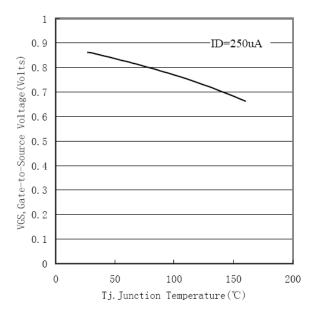
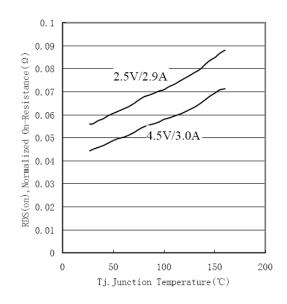
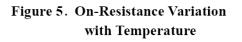


Figure 4. Gate Threshold Variation with Temperature



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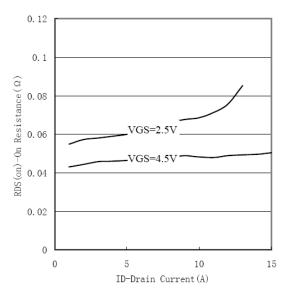


Figure 6. On-Resistance vs. Drain Current

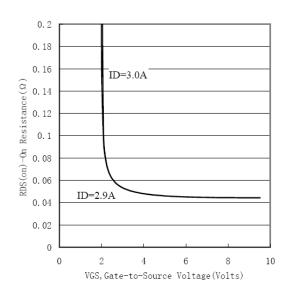


Figure 7. On-Resistance vs. Gate-to-Source Voltage

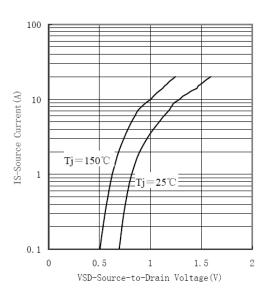


Figure 8. Source-Drain Diode Forward Voltage

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