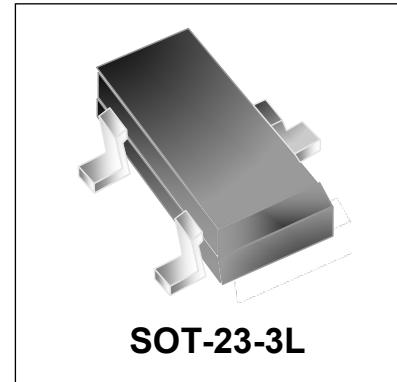


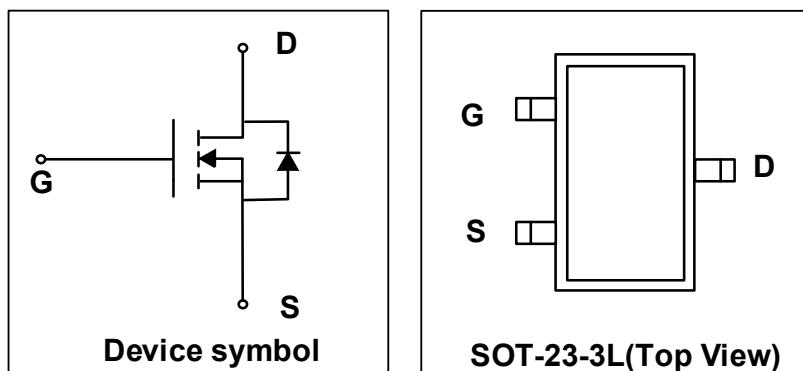
N-Channel Enhancement MOSFET

Features

- Way-on Small Signal MOSFETs
- $V_{DS} = 100V$, $I_D = 3.5A$
- $R_{DS(on)} < 90m\Omega$ @ $V_{GS} = 10V$
- $R_{DS(on)} < 110m\Omega$ @ $V_{GS} = 4.5V$
- Low Gate Charge
- Trench LV MOSFET Technology

**Mechanical Characteristics**

- SOT-23-3L Package
- Marking : Making Code
- RoHS Compliant

Schematic & PIN Configuration**Absolute Maximum Rating ($T_A=25^\circ C$ unless otherwise noted)**

Parameter		Symbol	Value	Unit
Drain-Source Voltage		V_{DS}	100	V
Gate-Source Voltage		V_{GS}	± 20	V
Continuous Drain Current	$T_A = 25^\circ C$	I_D	3.5	A
Pulsed Drain Current ¹		I_{DM}	14	A
Power Dissipation	$T_A = 25^\circ C$	P_D	1.65	W
Junction and Storage Temperature Range		T_J, T_{STG}	-55 to 150	$^\circ C$

Thermal Characteristics

Parameter	Symbol	Value	Unit
Thermal Resistance from Junction to Ambient ²	$R_{\theta JA}$	76	$^\circ C/W$

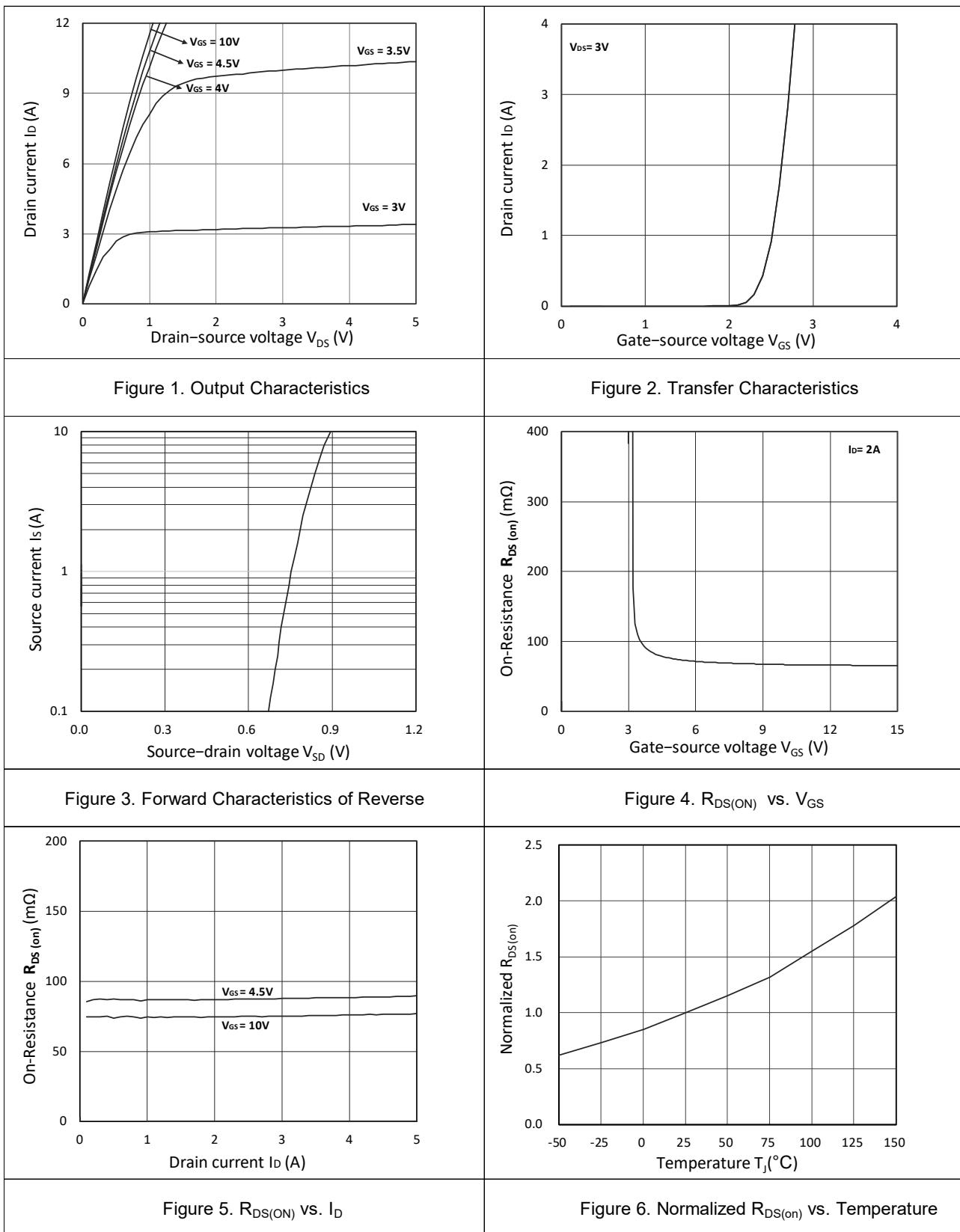
Electrical Characteristics (T_J=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Static Characteristics						
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} = 0 V, I _D = 250µA	100	-	-	V
Gate Leakage Current	I _{GSS}	V _{GS} = ±20V, V _{DS} = 0V	-	-	±100	nA
Drain Cut-off Current	I _{DSS}	V _{DS} = 100V, V _{GS} = 0V	-	-	1	µA
Gate Threshold Voltage	V _{GS(th)}	V _{GS} = V _{DS} , I _D = 250µA	1.4	-	2.4	V
Drain-Source on-state Resistance ³	R _{Ds(on)}	V _{GS} = 10V, I _D = 2A	-	74	90	mΩ
		V _{GS} = 4.5V, I _D = 1A	-	87	110	
Dynamic Characteristics⁴						
Input Capacitance	C _{iss}	V _{GS} = 0V, V _{DS} = 50V, f = 1MHz	-	1150	-	pF
Output Capacitance	C _{oss}		-	32	-	
Reverse Transfer Capacitance	C _{rss}		-	26	-	
Switching Characteristics⁴						
Total gate charge	Q _g	V _{GS} = 10V, V _{DS} = 50V, I _D = 2A	-	21	-	nC
Gate-source charge	Q _{gs}		-	3.7	-	
Gate-drain charge	Q _{gd}		-	3.6	-	
Turn-on Time	t _{d(on)}	V _{GS} = 10V, V _{DD} = 50V, R _G = 3Ω, I _D = 2A	-	5.8	-	ns
Rise time	t _r		-	16	-	
Turn-off Time	t _{d(off)}		-	18.5	-	
Fall time	t _f		-	7.2	-	
Source-Drain Diode characteristics						
Body Diode Voltage ³	V _{SD}	I _S = 1A, V _{GS} = 0V	-	-	1.2	V
Continuous Source Current	I _S	-	-	-	3.5	A

Notes:

- Repetitive rating, pulse width limited by junction temperature T_{J(MAX)}=150°C.
- The data tested by surface mounted on a 1 inch² FR-4 board with 2OZ copper, The value in any given application depends on the user's specific board design.
- Pulse Test: Pulse width≤300µs, duty cycle≤2%.
- This value is guaranteed by design hence it is not included in the production test.

Typical Characteristics



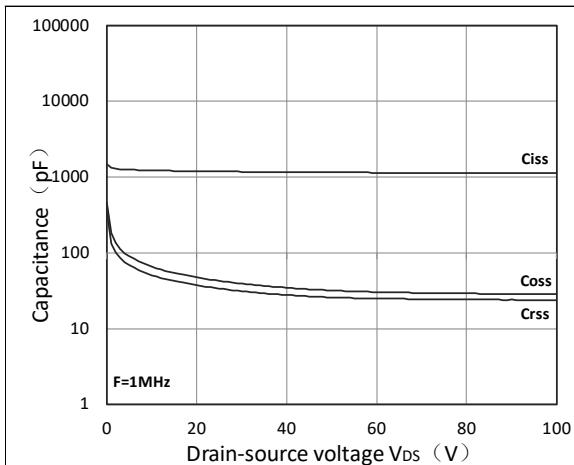


Figure 7. Capacitance Characteristics

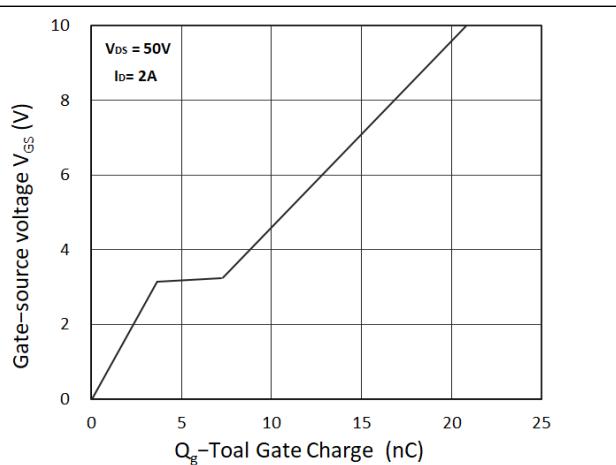
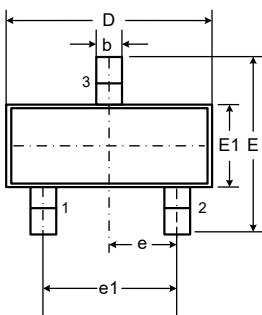
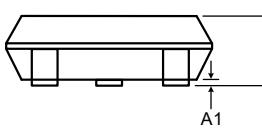
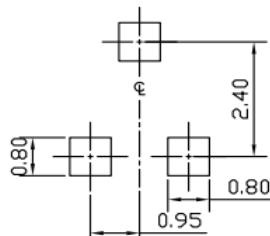


Figure 8. Gate Charge Characteristics

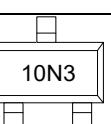
Outline Drawing – SOT-23-3L

PACKAGE OUTLINE		SOT-23-3L			
		DIMENSIONS			
SYMBOL	MILLIMETER		INCHES		
	MIN	MAX	MIN	MAX	
A	1.05	1.30	0.041	0.051	
A1	0.00	0.15	0.000	0.006	
b	0.30	0.50	0.012	0.020	
c	0.08	0.20	0.003	0.008	
D	2.82	3.02	0.111	0.119	
E	2.65	2.95	0.104	0.116	
E1	1.50	1.70	0.059	0.067	
e	0.95 BSC		0.0374 BSC		
e1	1.80	2.00	0.071	0.079	
L	0.60REF		0.024REF		
θ	0	8°	0	8°	

 	Notes <ul style="list-style-type: none"> 1. Dimensioning and tolerances per ANSI Y14.5M, 1985. 2. Controlling Dimension: Inches 3. Dimensions are exclusive of mold flash and metal burrs.
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Marking Codes

Part Number	WM10N35M2
Marking Code	

Package Information

Qty: 3k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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*Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.*