

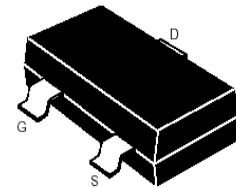
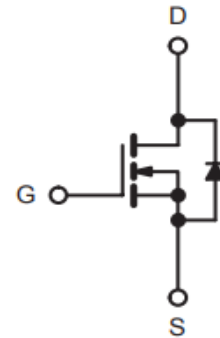
»Features

$V_{DS} = 30V$   
 $I_D = 5.5A$   
 $R_{DS(ON)} @V_{GS} = 10V, TYP = 24m\Omega$   
 $R_{DS(ON)} @V_{GS} = 4.5V, TYP = 32m\Omega$

»General Description

- Advanced trench process technology
- High Density Cell Design For Ultra Low On-Resistance
- SOT-23 for Surface Mount Package.

»Pin Configurations



»Absolute Maximum Ratings @ $T_A=25^\circ C$  unless otherwise noted

Parameter	Symbo	Value	Unit
Drain-source voltage	$V_{DS}$	30	V
Gate-source voltage	$V_{GS}$	$\pm 20$	V
Continuous drain current ( $t \leq 10s$ )	$I_D$	5.5	A
Pulsed drain current *	$I_{DM}$	25	A
Thermal resistance from junction to ambient	$R_{\theta JA}$	357	$^\circ C/W$
Junction temperature	$T_J$	150	$^\circ C$
Storage temperature	$T_{stg}$	-55~ 150	$^\circ C$

\* Repetitive rating : Pulse width limited by maximum junction temperature.

**»Electrical Characteristics @ $T_A=25^{\circ}\text{C}$  unless otherwise noted**

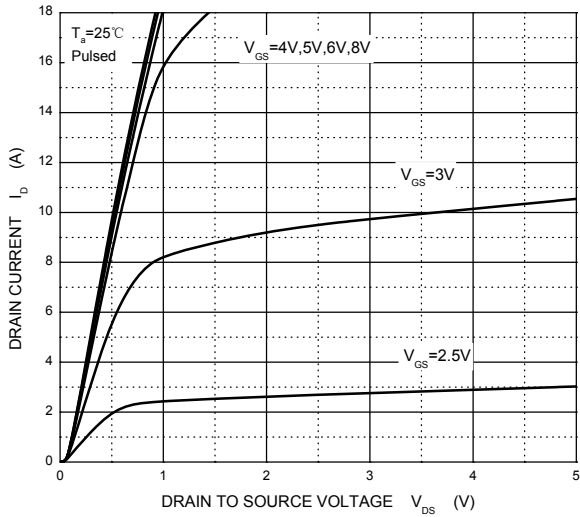
Parameter	Symbol	Test Condition	Min	Typ	Max	Units
<b>STATIC PARAMETERS</b>						
Drain-source breakdown voltage	$V_{(BR)DSS}$	$V_{GS} = 0V, I_D = 250\mu A$	30			V
Zero gate voltage drain current	$I_{DSS}$	$V_{DS} = 30V, V_{GS} = 0V$			1	$\mu A$
Gate-body leakage current	$I_{GSS}$	$V_{GS} = \pm 20V, V_{DS} = 0V$			$\pm 100$	nA
Gate threshold voltage	$V_{GS(th)}$	$V_{DS} = V_{GS}, I_D = 250\mu A$	1	1.5	2.5	V
Drain-source on-resistance (note 1)	$R_{DS(on)}$	$V_{GS} = 10V, I_D = 4A$		24	30	m $\Omega$
		$V_{GS} = 4.5V, I_D = 3A$		32	42	$\Omega$
Forward tranconductance (note 1)	$g_{FS}$	$V_{DS} = 5V, I_D = 5A$	5			S
Diode forward voltage	$V_{SD}$	$I_S = 1A$			1	V
<b>DYNAMIC PARAMETERS (note 2)</b>						
Input capacitance	$C_{iss}$	$V_{DS} = 15V, V_{GS} = 0V, f = 1MHz$			820	pF
Output capacitance	$C_{oss}$			115		pF
Reverse transfer capacitance	$C_{rss}$			82		pF
Gate resistance	$R_g$	$V_{DS} = 0V, V_{GS} = 0V, f = 1MHz$			1.5	$\Omega$
<b>SWITCHING PARAMETERS (note 2)</b>						
Turn-on delay time	$t_{d(on)}$	$V_{GS} = 10V, V_{DS} = 15V,$ $R_L = 2.6\Omega, R_{GEN} = 3\Omega$			6.5	ns
Turn-on rise time	$t_r$			3.1		ns
Turn-off delay time	$t_{d(off)}$			15.1		ns
Turn-off fall time	$t_f$			2.7		ns

**Note :**

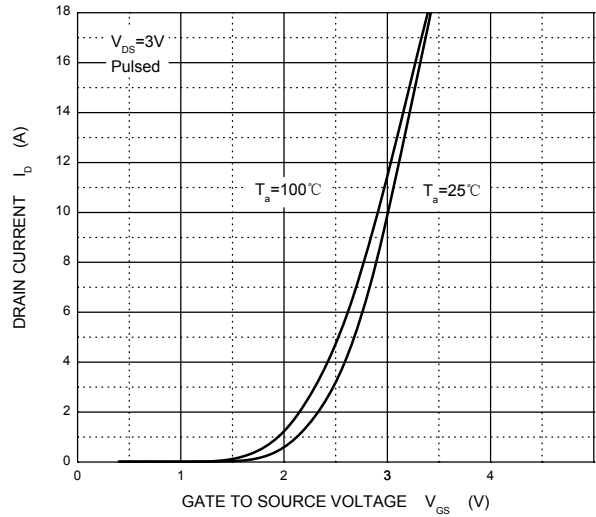
1. Pulse Test : Pulse width  $\leq 300\mu s$ , duty cycle  $\leq 0.5\%$ .
2. These parameters have no way to verify.

» Typical Performance Characteristics (T<sub>J</sub> = 25 °C, unless otherwise noted)

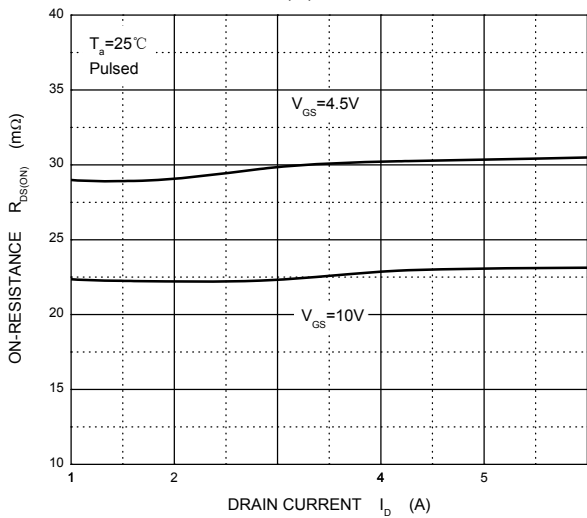
**Output Characteristics**



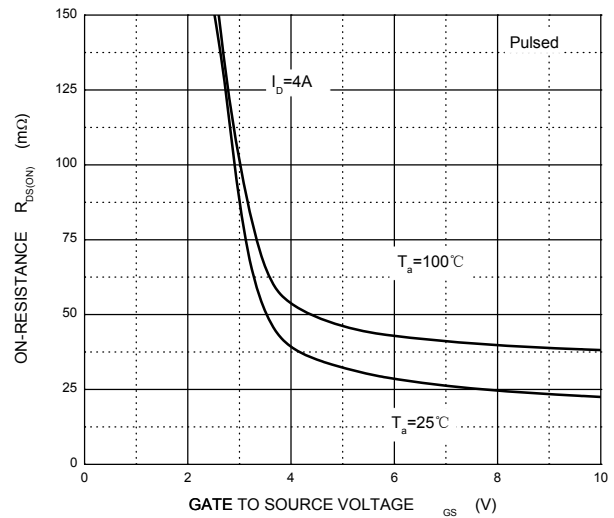
**Transfer Characteristics**



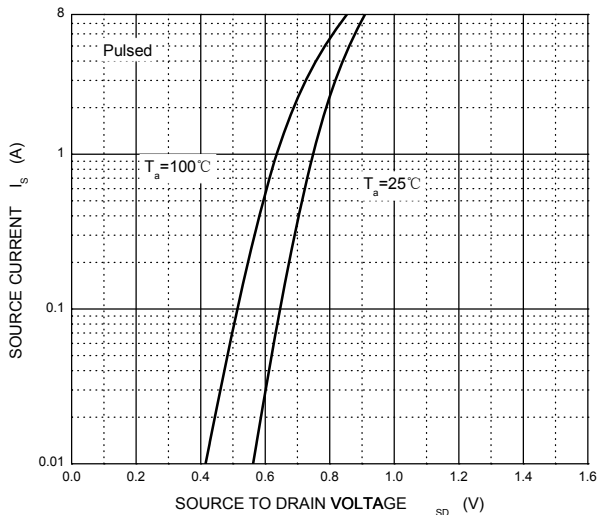
**R<sub>DS(ON)</sub> — I<sub>D</sub>**



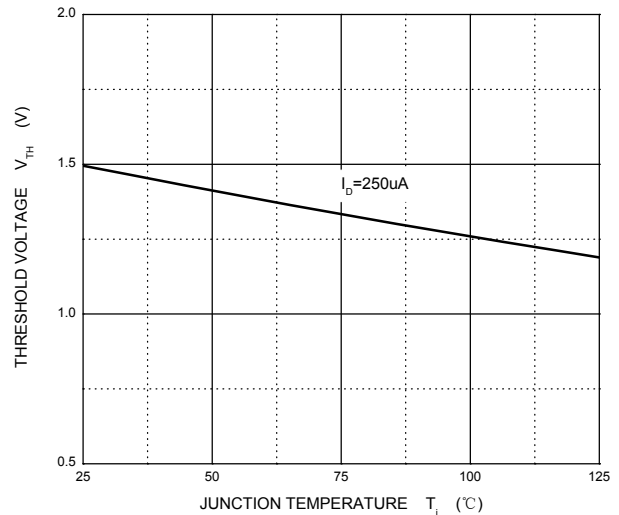
**R<sub>DS(ON)</sub> — V<sub>GS</sub>**



**I<sub>S</sub> — V<sub>SD</sub>**

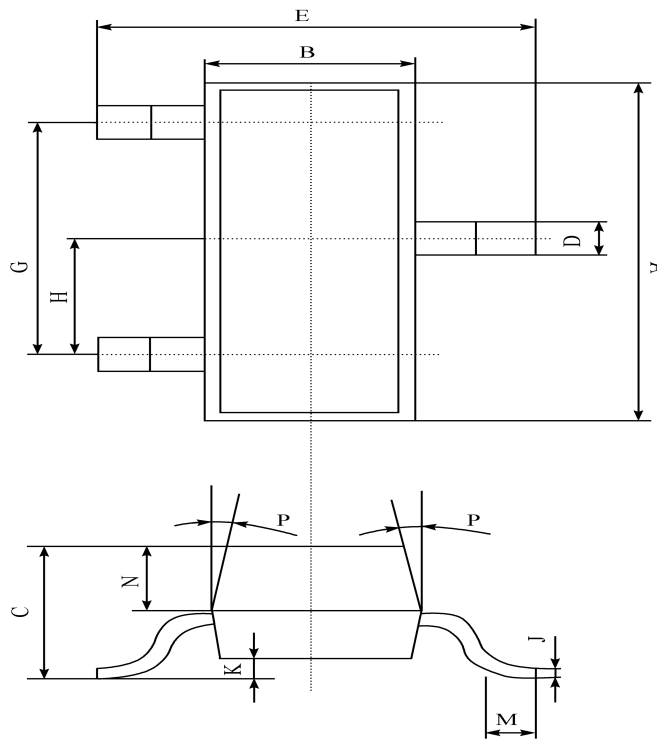


**Threshold Voltage**



»Package Information

**SOT-23**



A	$2.90 \pm 0.10$
B	$1.30 \pm 0.10$
C	$1.00 \pm 0.10$
D	$0.40 \pm 0.10$
E	$2.40 \pm 0.20$
G	$1.90 \pm 0.10$
H	$0.95 \pm 0.05$
J	$0.13 \pm 0.05$
K	$0.00 - 0.10$
M	$\geq 0.2$
N	$0.60 \pm 0.10$
P	$7 \pm 2^\circ$

»Ordering information

Order code	Package	Marking	Base qty	Delivery mode
AO3404	SOT-23	3404	3K	Tape and reel

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