NTR4503N

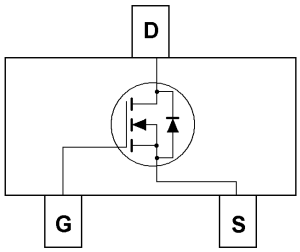
N-Channel Enhancement Mode MOSFET

Feature

- 30V/3.6A, $R_{DS(ON)}$ = 70mΩ(MAX) @V_{GS} = 10V.
  $R_{DS(ON)}$ =100mΩ(MAX) @V_{GS} = 4.5V.
- Super High dense cell design for extremely low $R_{DS(ON)}$.
- Reliable and Rugged.
- SOT-23 for Surface Mount Package.



SOT-23



Applications

- Power Management
  Portable Equipment and Battery Powered Systems.

Absolute Maximum Ratings

T_A=25℃Unless Otherwise noted

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V_{DS}	30	V
Gate-Source Voltage	V_{GS}	±20	V
Drain Current-Continuous	I_D	3.6	A

Electrical Characteristics

T_A=25℃Unless Otherwise noted

Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	BVDSS	VGS=0V, ID=250μA	30	-	-	V
Zero-Gate Voltage Drain Current	IDSS	VDS=30V, VGS=0V	-	-	1	μA
Gate Body Leakage Current, Forward	IGSSF	VGS=20V, VDS=0V	-	-	100	nA
Gate Body Leakage Current, Reverse	IGSSR	VGS=-20V, VDS=0V	-	-	-100	nA
On Characteristics						
Gate Threshold Voltage	VGS(th)	VGS= VDS, ID=250μA	1.1	-	2.2	V
Static Drain-source On-Resistance	RDS(ON)	VGS =10V, ID =3.6A	-	50	70	mΩ
		VGS =4.5V, ID =3.1A	-	80	100	mΩ
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	VSD	VGS =0V, IS=1.0A			1.2	V

Dynamic						
Q_g	Total Gate Charge	V_{DS}=15V,V_{GS}=10V,I_D=2A		8.5	12	nC
Q_{gs}	Gate-Source Charge			1.1		
Q_{gd}	Gate-Drain Charge			1.8		
t_{on}	Turn-on Time	V_{DD}=15V,I_D=2A,V_{GS}=10V,R_G=6Ω			40	ns
$t_{d(ON)}$	Turn-on Delay time			11		
t_r	Turn-on Rise Time			17		
$T_{d(off)}$	Turn-off Delay Time			37		
t_f	Turn-off Fall Time			20		
t_{off}	Turn-off Time				60	

Typical Characteristics

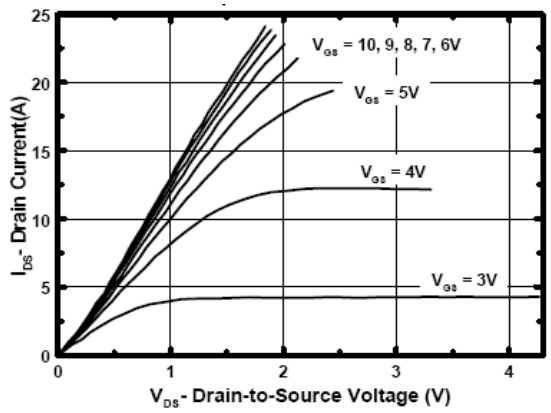


Figure 1. Output Characteristics

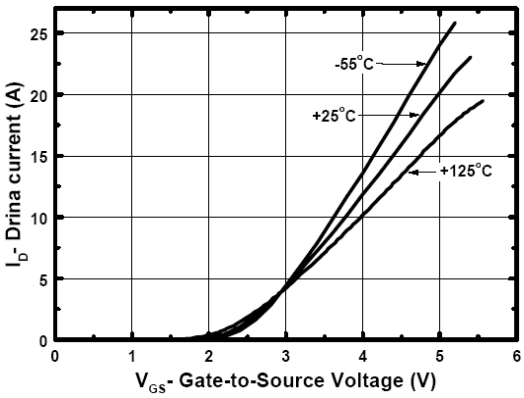


Figure 2. Transfer Characteristics

Typical Characteristics

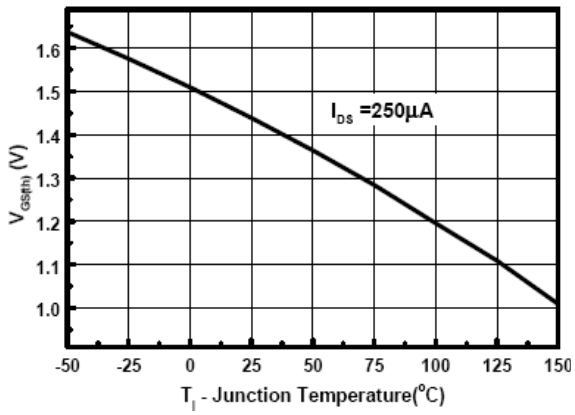


Figure 3. Gate Threshold Variation with Temperature

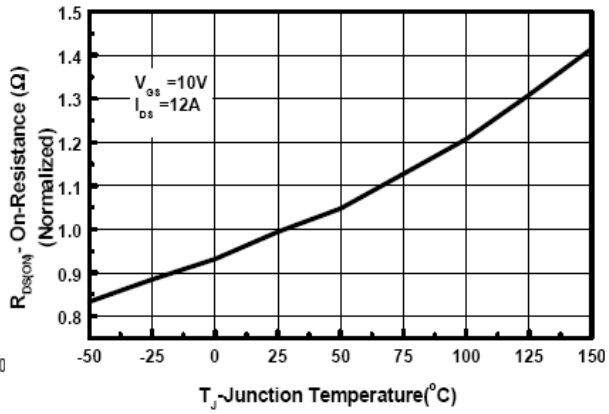


Figure 4. On-Resistance Variation with Temperature

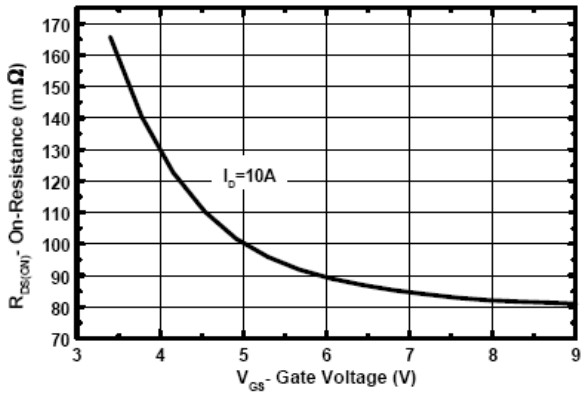


Figure 5. On-Resistance vs. Gate-to-Source Voltage

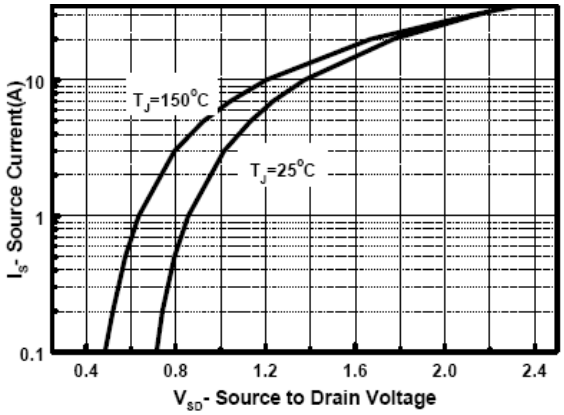
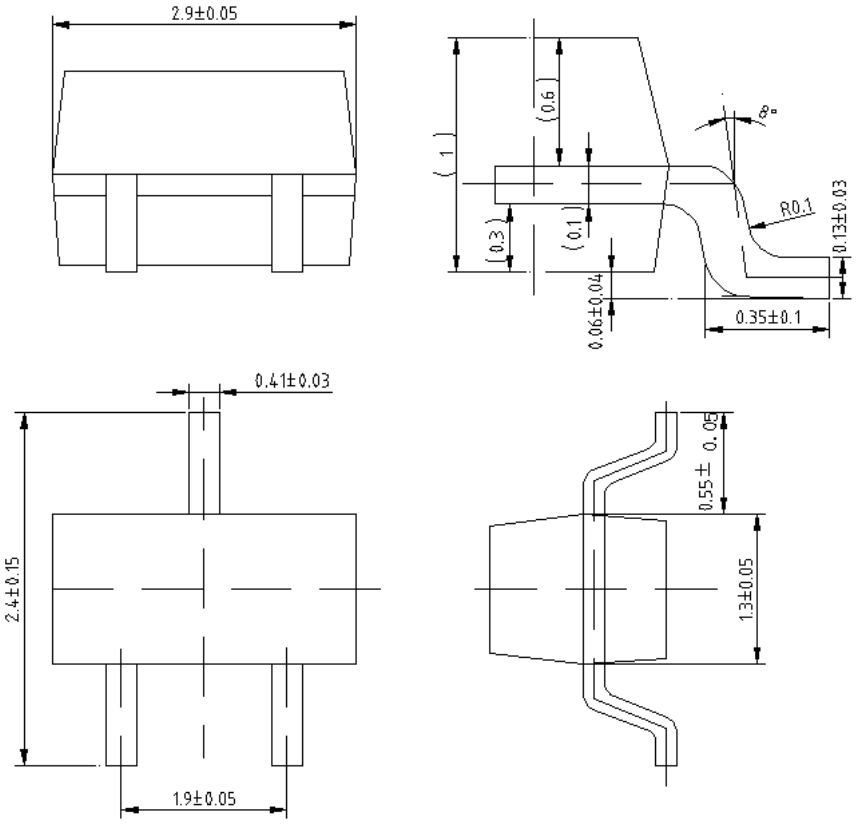


Figure 6. Source-Drain Diode Forward Voltage

Package Outline Dimensions (UNIT: mm)

SOT-23



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