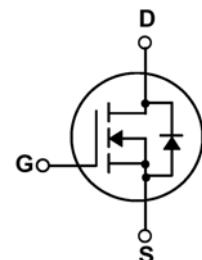
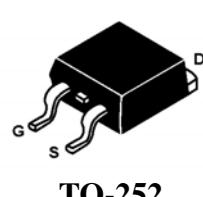


N-Channel Enhancement Model MOSFET

Feature

- 600V/0.3A, $R_{DS(on)}=11.5\Omega(\text{MAX})$ @ $V_{GS}=10\text{V}$.
- Super high dense cell design for extremely low $R_{DS(on)}$.
- Reliable and Rugged.
- Fast switching.
- High thermal cycling performance.
- Low thermal resistance.

**Application**

- Switching regulators, Switching converters.
- Switch mode power supplies (SMPS).

Absolute Maximum Ratings ($T_c=25^\circ\text{C}$, Unless Otherwise Noted)

Parameter	Symbol	Limit	Units
Drain-Source Voltage	V_{DS}	600	V
Gate-Source Voltage	V_{GS}	30	V
Drain-Current Continuous, $V_{GS}@10\text{V}$	$I_D@T_c=25^\circ\text{C}$	0.3	A
Drain-Current Continuous, $V_{GS}@10\text{V}$	$I_D@T_c=150^\circ\text{C}$	0.18	A

Electrical Characteristics ($T_c=25^\circ\text{C}$, Unless Otherwise Noted)

Parameter	Symbol	Test Conditions	Min	Typ.	Max	Units
Off Characteristics						
Drain to Source Breakdown Voltage	$BVDSS$	$V_{GS}=0\text{V}, I_D=250\mu\text{A}$	600	-	-	V
Zero-Gate Voltage Drain Current	$IDSS$	$V_{DS}=600\text{V}, V_{GS}=0\text{V}$	-	-	100	μA
Gate Body Leakage Current	$IGSS$	$V_{GS}=30\text{V}, V_{DS}=0\text{V}$	-	-	100	nA
On Characteristics						
Gate Threshold Voltage	$V_{GS(th)}$	$V_{GS}=V_{DS}, I_D=250\mu\text{A}$	2	-	4	V
Static Drain-source On-Resistance	$R_{DS(ON)}$	$V_{GS}=10\text{V}, I_D=0.15\text{A}$	-		11.5	Ω
Drain-Source Diode Characteristics and Maximum Ratings						
Drain-Source Diode Forward Voltage	V_{SD}	$V_{GS}=0\text{V}, I_S=0.3\text{A}$			2	V

Nanker Group**Headquarters:**

Nanker Building, No.2, 5th Jianye Rd., Jizhou Av., Zhuhai, Guangdong, PRC

Tel: 0756-8128088 Fax: 0756-8889513

E-mail: info@nanker.com

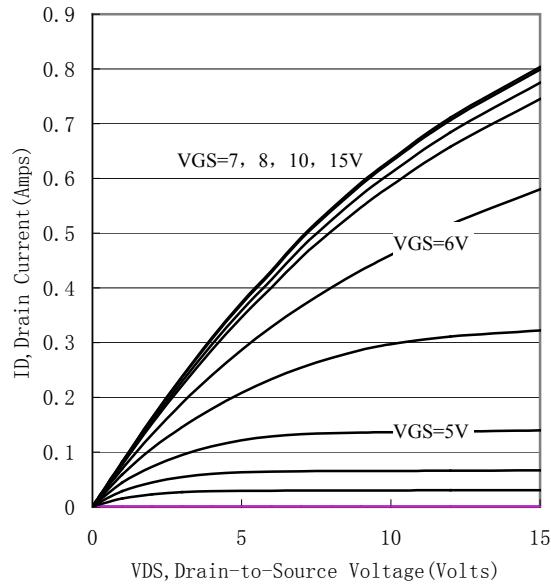
Shenzhen Sales Office:

Tel: 0755-86022783, 86022784, 86022910

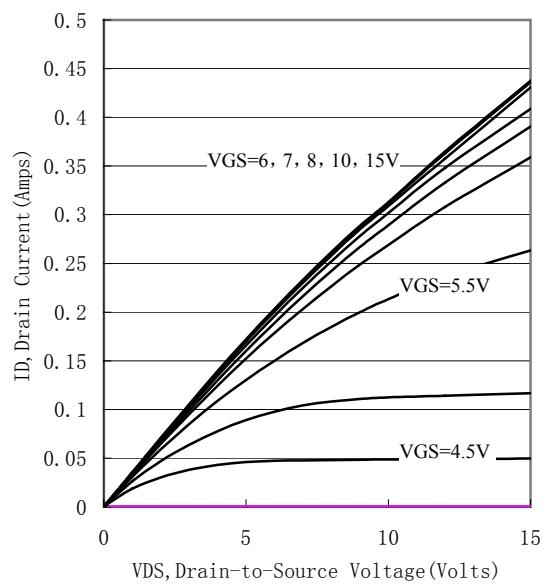
Fax: 0755-86022774

Website: www.nanker.com

Typical Characteristics



**Figure 1. Typital Output Characteristics,
 $T_c=25^\circ\text{C}$**



**Figure 2. Typital Output Characteristics,
 $T_c=150^\circ\text{C}$**

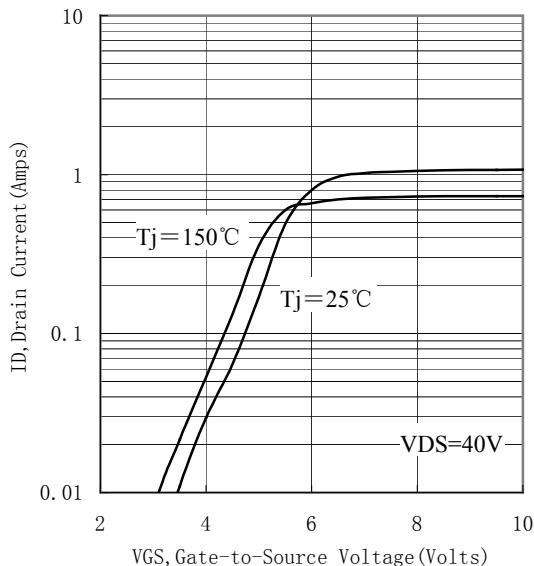
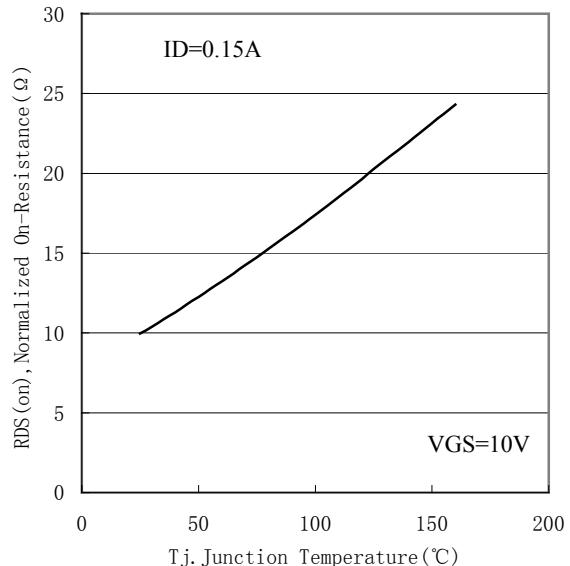


Figure 3. Typital Transfer Characteristics



**Figure 4. On-Resistance Variation
Vs. Temperature**



Typical Characteristics

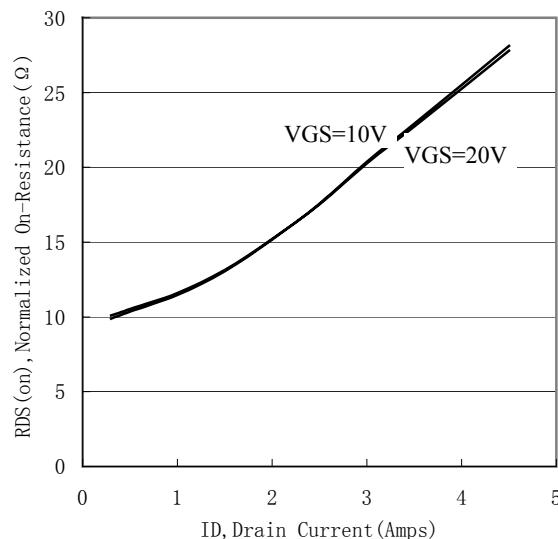


Figure 5. On-Resistance Variation Vs. Drain Current and Gate Voltage

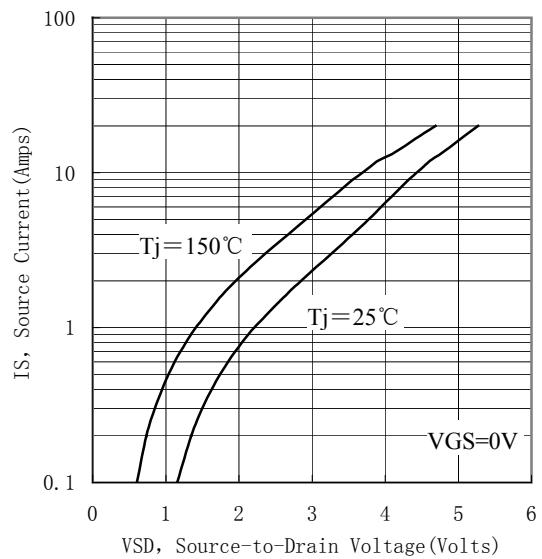


Figure 6. Typital Source-Drain Diode Forward Voltage