

# Kingtronics®

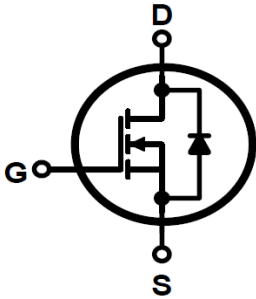
## KT4N60

### N-Channel Power MOSFET

## FEATURES

Low ON Resistance  
Fast Switching  
High Input Resistance  
ROHS Compliant

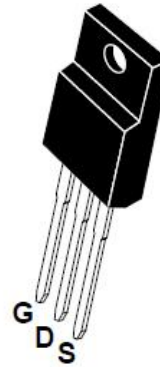
## Schematic Diagram (N-Channel)



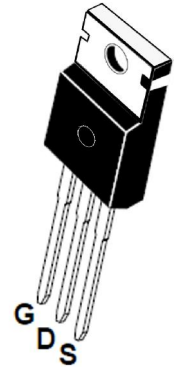
## PRODUCT SUMMARY

$V_{DSS}$	600	V
$I_D$	4.0	A
$P_D(T_C=25^\circ\text{C})$	50	W
$R_{DS(ON)typ}$	1.67	$\Omega$

### TO-220F



### TO-220



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

$T_C = 25^\circ\text{C}$  unless otherwise specified

Symbol	Parameter	Rating	Units
$V_{DS}$	Drain-to-Source Voltage	600	V
$I_D$	Continuous Drain Current $T_C = 25^\circ\text{C}$	4.0	A
	Continuous Drain Current $T_C = 100^\circ\text{C}$	2.5	A
$I_{DM}$	Pulsed Drain Current ①	16	A
$V_{GS}$	Gate-to-Source Voltage	$\pm 30$	V
$E_{AS}$	Single Pulse Avalanche Energy ②	128	mJ
$P_D$	Power Dissipation	50	W
$T_J, T_{stg}$	Junction Temperature and Storage Temperature	150, - 55 to 150	$^\circ\text{C}$

① Repetitive rating: Pulse width limited by maximum junction temperature

② Starting  $T_J=25^\circ\text{C}$ ,  $V_{DD}=50\text{V}$ ,  $L=25\text{mH}$ ,  $R_G=25\Omega$ ,  $I_{AS}=4.0\text{A}$

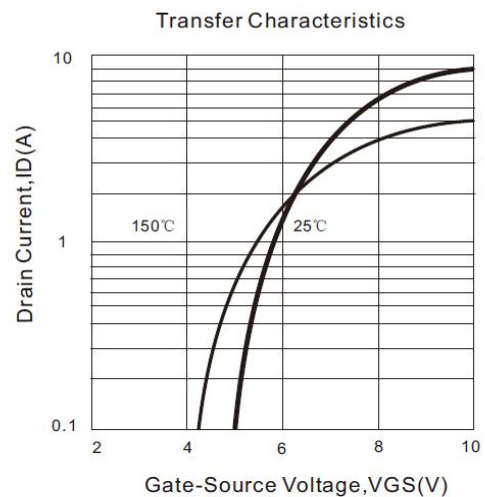
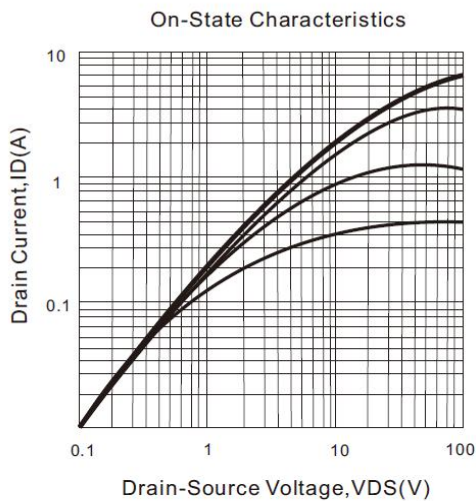
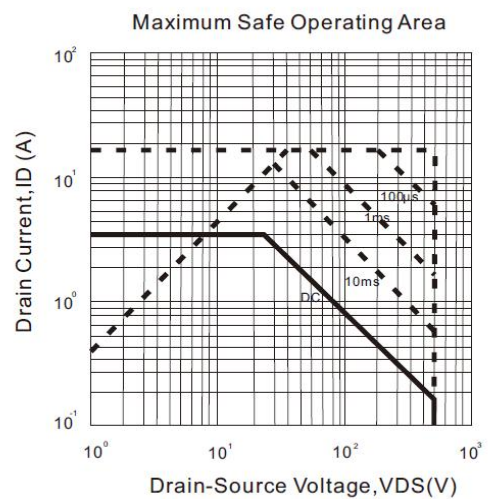
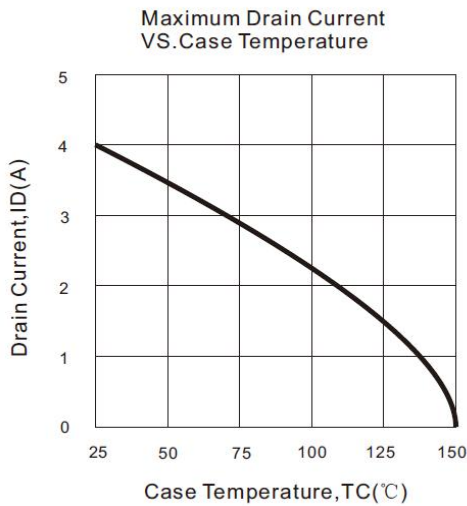
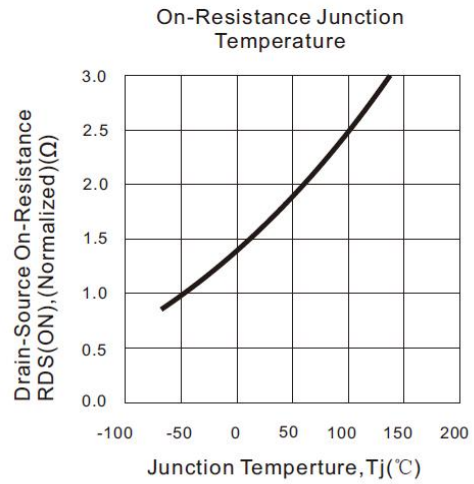
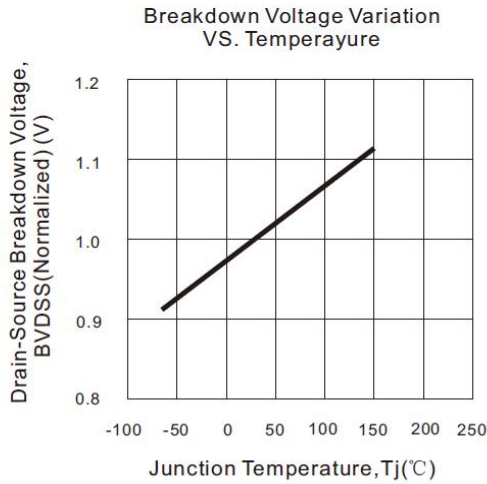
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## KT4N60

### N-Channel Power MOSFET

## RATING AND CHARACTERISTIC CURVES



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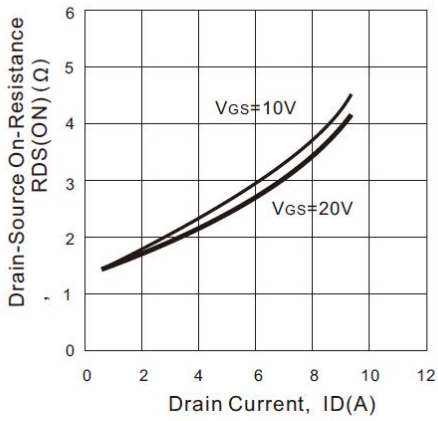


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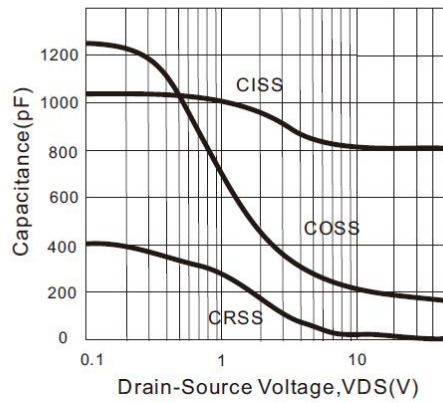
## KT4N60

### N-Channel Power MOSFET

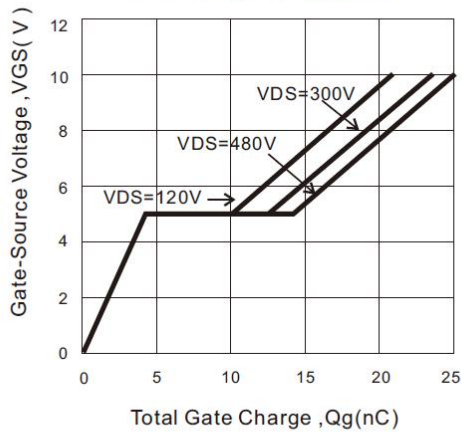
On-Resistance Variation vs. Drain Current and Gate Voltage



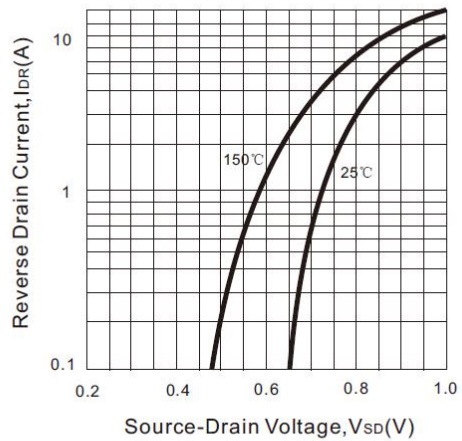
Capacitance Characteristics (Non-Repetitive)



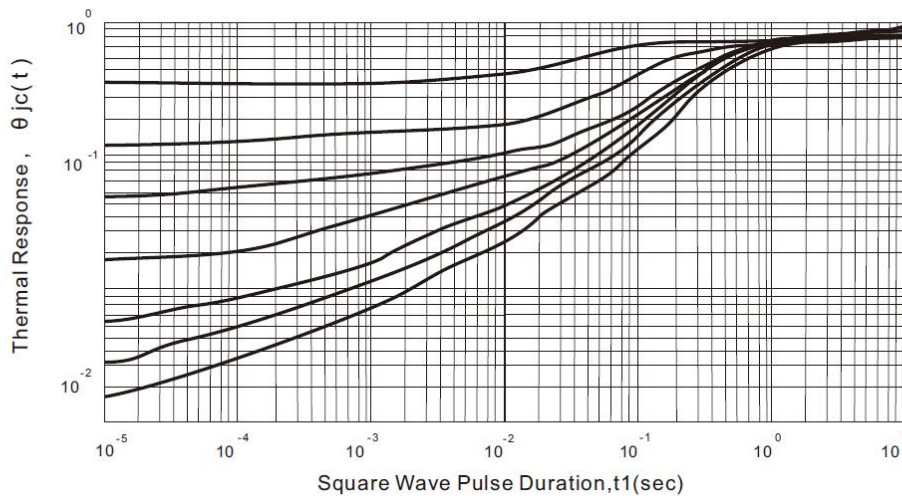
Gate Charge Characteristics



Body Diode Forward Voltage Variation With Source Current and Temperature



Transient Thermal Response Curve



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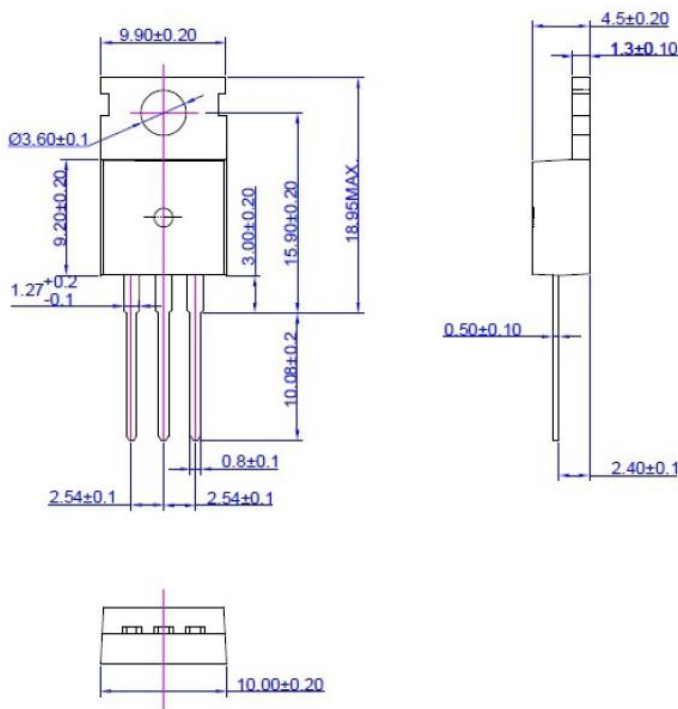
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## KT4N60

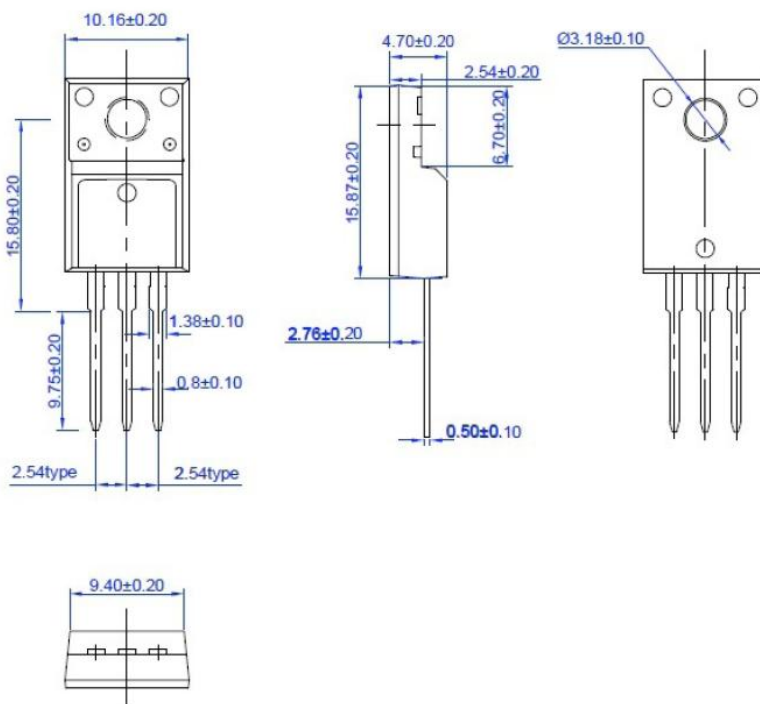
N-Channel Power MOSFET

### Package Dimensions

#### TO-220



#### TO-220F



Notes: Specifications are subject to change without notice.

**Kingtronics® International Company**

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