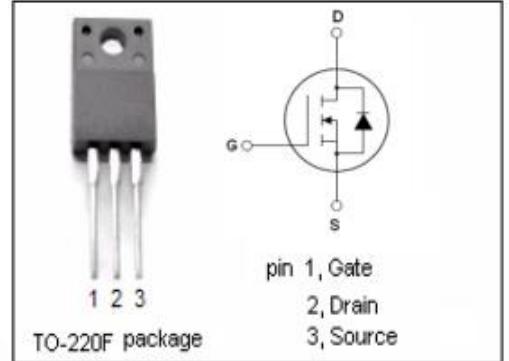


isc N-Channel MOSFET Transistor TK16A60W5,ITK16A60W5

• FEATURES

- Low drain-source on-resistance: $R_{DS(ON)} = 0.18\Omega$ (typ.)
- Easy to control Gate switching
- Enhancement mode: $V_{th} = 3.0$ to 4.5 V ($V_{DS} = 10$ V, $I_D=0.79$ mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

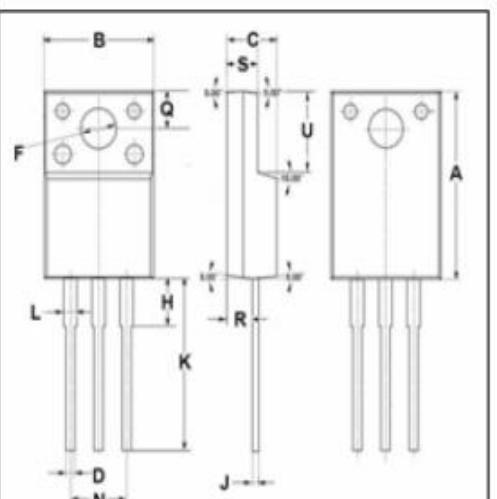


• DESCRIPTION

- Switching Voltage Regulators

• ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	600	V
V_{GS}	Gate-Source Voltage	± 30	V
I_D	Drain Current-Continuous	15.8	A
I_{DM}	Drain Current-Single Pulsed	63.2	A
P_D	Total Dissipation @ $T_c=25^\circ C$	40	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$



DIM	mm	
	MIN	MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	3.13	$^\circ C/W$
$R_{th(ch-a)}$	Channel-to-ambient thermal resistance	62.5	$^\circ C/W$

isc N-Channel MOSFET Transistor TK16A60W5,ITK16A60W5**ELECTRICAL CHARACTERISTICS** $T_c=25^\circ\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV_{DSS}	Drain-Source Breakdown Voltage	$\text{V}_{\text{GS}}=0\text{V}; \text{I}_D= 10\text{mA}$	600			V
$\text{V}_{\text{GS(th)}}$	Gate Threshold Voltage	$\text{V}_{\text{DS}}= 10\text{V}; \text{I}_D=0.79\text{mA}$	3.0		4.5	V
$\text{R}_{\text{DS(on)}}$	Drain-Source On-Resistance	$\text{V}_{\text{GS}}= 10\text{V}; \text{I}_D=7.9\text{A}$		180	230	$\text{m}\Omega$
I_{GSS}	Gate-Source Leakage Current	$\text{V}_{\text{GS}}= \pm 30\text{V}; \text{V}_{\text{DS}}= 0\text{V}$			± 1	μA
I_{DSS}	Drain-Source Leakage Current	$\text{V}_{\text{DS}}= 600\text{V}; \text{V}_{\text{GS}}= 0\text{V}$			100	μA
V_{SDF}	Diode forward voltage	$\text{I}_{\text{DR}} = 15.8 \text{ A}, \text{V}_{\text{GS}} = 0 \text{ V}$			1.7	V