

isc N-Channel MOSFET Transistor

TK16G60W5

• FEATURES

- Low drain-source on-resistance:
 R_Ds(on) ≤0.23Ω.
- Enhancement mode:
 Vth =3.0 to 4.5V (VDS = 10 V, ID=0.79mA)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Switching Voltage Regulators

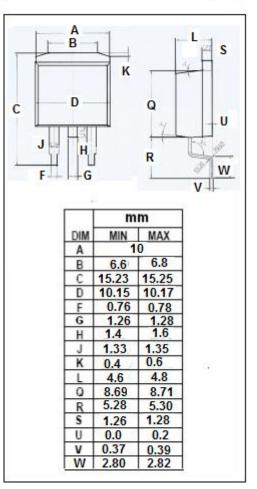
PAK 2 G(1) S(3) pin 1.Gate 2.Drain 3.Source TO-263 package

• ABSOLUTE MAXIMUM RATINGS(Ta=25°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		А
I _{DM}	Drain Current-Single Pulsed 63		А
P _D	otal Dissipation @T _C =25°C 130		W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C
T _{stg}	Storage Temperature -55~150		$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.962	°C/W





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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =10mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =10V; I _D =0.79mA	3.0		4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =7.9A			0.23	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			100	μА
V_{SDF}	Diode forward voltage	I _{DR} =15.8A, V _{GS} = 0 V			1.7	V

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