

Isc N-Channel MOSFET Transistor

TK35N65W

FEATURES

- Low drain-source on-resistance:
 - $R_{DS}(ON) = 55m\Omega$ (MAX)
- Enhancement mode:
 - Vth = 2.5 to 3.5V (VDS = 10 V, ID=2.1mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

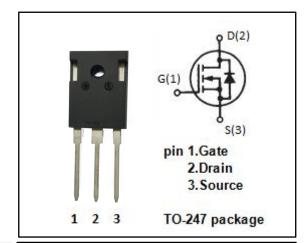
· Switching Voltage Regulators

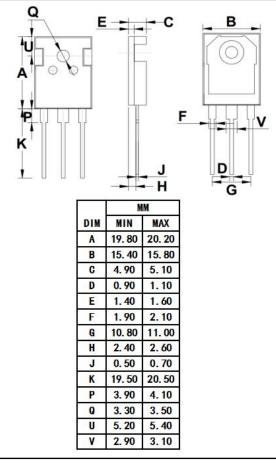
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	650	
V _{GS}	Gate-Source Voltage	±30	
I _D	Drain Current-Continuous 49.2		Α
Ірм	Drain Current-Single Pulsed 196		А
P _D	Total Dissipation @T _c =25℃	400	W
Tj	Max. Operating Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.313	°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	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =2.5mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =24.6A			55	mΩ
lgss	Gate-Source Leakage Current	V _{GS} = ±30V;V _{DS} = 0V			±1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 650V; V _{GS} = 0V			100	μ А
V _{SDF}	Diode forward voltage	I _{DR} =49.2A, V _{GS} = 0 V			1.7	V



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