

Isc N-Channel MOSFET Transistor

TK35A08N1, ITK35A08N1

• FEATURES

- Low drain-source on-resistance:
 R_{DS}(ON) = 12.0mΩ (V_{GS} = 10 V)
- Enhancement mode:
 Vth = 2.0 to 4.0V (VDS = 10 V, ID=0.3mA)
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

· Switching Voltage Regulators

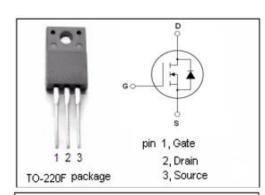


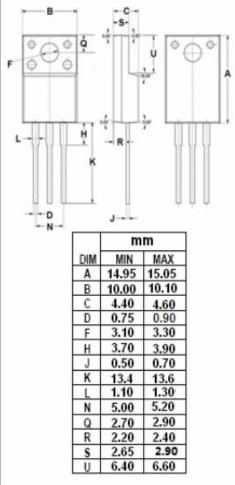
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	80	V
V _{GS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous	35	А
I _{DM}	Drain Current-Single Pulsed	116	А
P_D	Total Dissipation @T _C =25℃	30	W
Tj	Max. Operating Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~150	${\mathbb C}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.16	°C/W
Rth(ch-a) Channel-to-ambient thermal resistance		62.5	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 10mA	80			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = 10V; I _D =0.3mA	2.0		4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =17.5A			12.2	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 80V; V _{GS} = 0V			10	μА
V _{SDF}	Diode forward voltage	I _{DR} =35A, V _{GS} = 0 V			1.2	V

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