

isc N-Channel MOSFET Transistor

4N65

DESCRIPTION

- Drain Current I_D= 4A@ T_C=25°C
- Drain Source Voltage-
 - : V_{DSS}= 650V(Min)
- · Fast Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

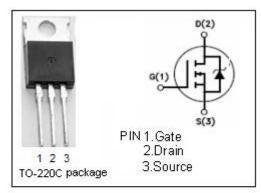
• Designed for high efficiency switch mode power supply.

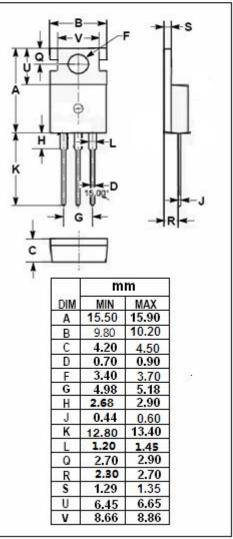
ABSOLUTE MAXIMUM RATINGS(T_C=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage (V _{GS} =0)	650	V
V _{GS}	Gate-Source Voltage	±30	V
I _D	Drain Current-continuous@ T _c =25℃	4	Α
I _{D(puls)}	Pulse Drain Current	16	Α
P _{tot}	Total Dissipation@T _C =25 [°] C 106		W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$ C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	1.18	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient		°C/W







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• ELECTRICAL CHARACTERISTICS (T_C=25°C)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 250μA	650			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =250μA	2.0		4.0	V
V _{SD}	Diode Forward On-Voltage	I _S =4.4A ;V _{GS} = 0			1.4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2.2A			2.5	Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±30V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 650V; V _{GS} = 0			10	μΑ
t _r	Rise Time				100	
$t_{d(on)}$	Turn-on Delay Time	I _D =4A;			35	20
t f	Fall Time	V_{DD} =320V; R_L =25 Ω			80	ns
$t_{d(off)}$	Turn-off Delay Time				60	

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