

isc N-Channel MOSFET Transistor

STP36N55M5

FEATURES

- · With TO-220 packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



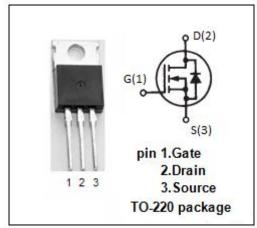
- Power supply
- · Switching applications

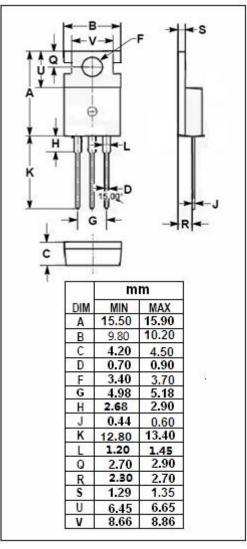
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	550	V
V_{GSS}	Gate-Source Voltage	±25	V
I _D	Drain Current-Continuous@T _C =25℃	33	А
І _{ОМ}	Drain Current-Single Pulsed	132	А
P _D	Total Dissipation	190	W
T _j	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	0.66	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 1.0mA	550			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =V _{GS} ; I _D =0.25mA	3.0		5.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =16.5A			80	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 550V; V _{GS} = 0V;Tc=25℃ Tc=125℃			1 100	μА
V _{SDF}	Diode forward voltage	I _{SD} = 33A, V _{GS} = 0 V			1.5	V

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