

isc N-Channel MOSFET Transistor

2N7055

• FEATURES

- Drain Current: I_D= 33A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 200V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 85m Ω (Max)
- Fast Switching
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

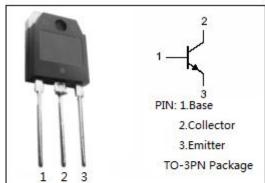
- · High efficiency switch mode power supplies
- Active power factor correction
- · Electronic lamp ballasts based on half bridge topology

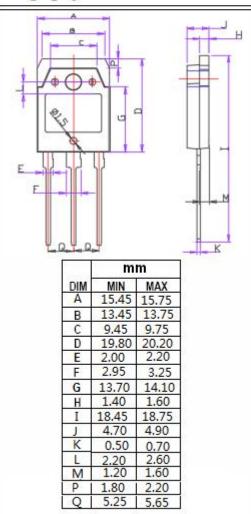
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	200	٧
V_{GS}	Gate-Source Voltage-Continuous ±20		V
I _D	Drain Current-Continuous		Α
I _{DM}	Drain Current-Single (pulsed)	132	Α
P _D	Total Dissipation @T _C =25°C 180		W
Tj	Max. Operating Junction Temperature 150		$^{\circ}$
T _{stg}	Storage Temperature	-55~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.69	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D =250μA	200			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 = 33A ;V _{GS} = 0			1.6	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 16A			85	mΩ
Igss	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =200V; V _{GS} = 0			250	μA

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