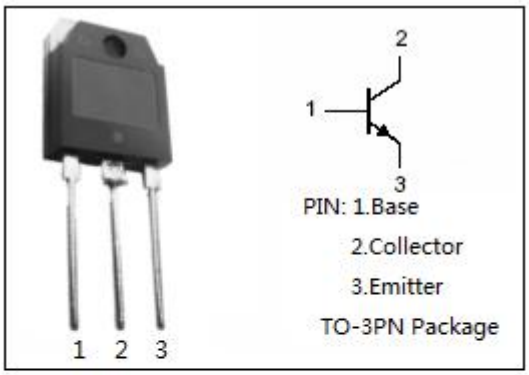
isc N-Channel MOSFET Transistor 2N7055

• FEATURES

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



• APPLICATIONS

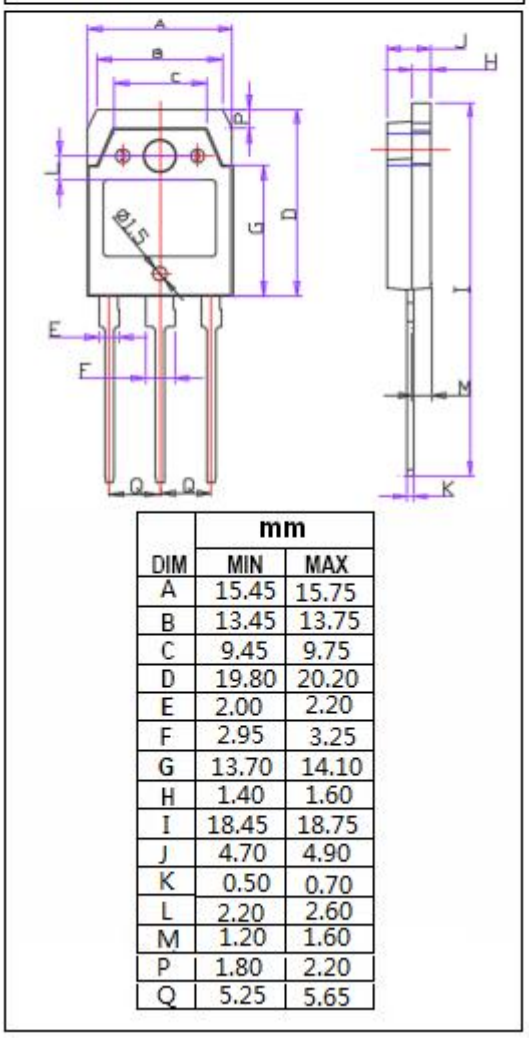
- High efficiency switch mode power supplies
- Active power factor correction
- Electronic lamp ballasts based on half bridge topology

• ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	200	V
V_{GS}	Gate-Source Voltage-Continuous	±20	V
I_D	Drain Current-Continuous	33	A
I_{DM}	Drain Current-Single (pulsed)	132	A
P_D	Total Dissipation @T_C=25℃	180	W
T_j	Max. Operating Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	0.69	℃/W



DIM	mm MIN	MAX
A	15.45	15.75
B	13.45	13.75
C	9.45	9.75
D	19.80	20.20
E	2.00	2.20
F	2.95	3.25
G	13.70	14.10
H	1.40	1.60
I	18.45	18.75
J	4.70	4.90
K	0.50	0.70
L	2.20	2.60
M	1.20	1.60
P	1.80	2.20
Q	5.25	5.65

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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
I_{GSS}	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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