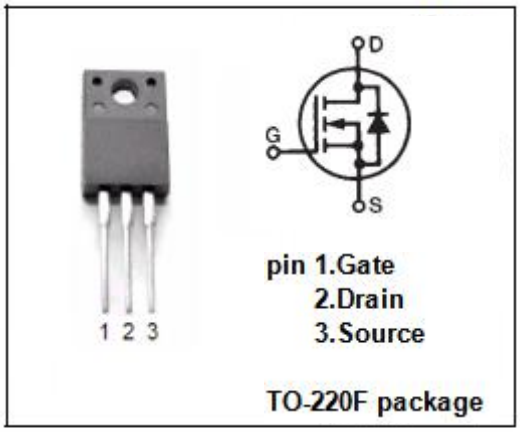
isc N-Channel MOSFET Transistor AOTF25S65L

FEATURES

- Drain Current –I_D= 25A@ T_C=25℃
- Drain Source Voltage-
  : V_{DSS}= 650V(Min)
- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 0.19Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



DESCRIPTION

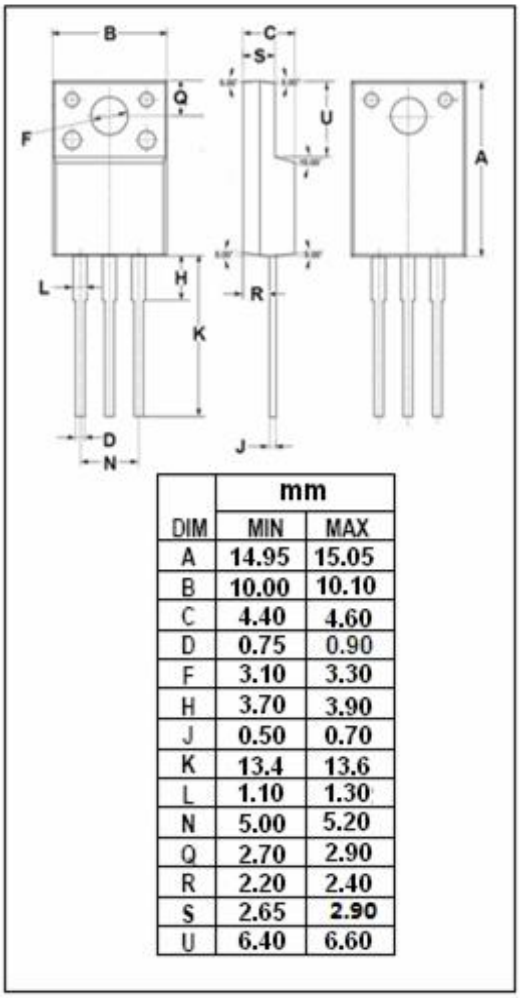
- Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	650	V
V_{GS}	Gate-Source Voltage-Continuous	±30	V
I_D	Drain Current-Continuous	25	A
I_{DM}	Drain Current-Single Pluse	104	A
P_D	Total Dissipation @T_C=25℃	40	W
T_J	Max. Operating Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	3.1	℃/W



DIM	mm MIN	MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

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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= 0.25mA	650			V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}=5; I_D= 0.25mA	2.6		4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= 10V; I_D= 12.5A V_{GS}= 10V; I_D= 12.5A;T_J=125℃			0.19 0.53	Ω
I_{GSS}	Gate-Body Leakage Current	V_{GS}= ±20V;V_{DS}= 0			±100	nA
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}= 650V; V_{GS}= 0 V_{DS}= 520V; V_{GS}= 0;T_J=55℃		10	1	μA
V_{SD}	Forward On-Voltage	I_S= 7.5A; V_{GS}= 0		0.84		V

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