

isc N-Channel MOSFET Transistor

APT66F60L

• FEATURES

- · Drain Source Voltage-
- : V_{DSS}= 600V(Min)
- · Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 90m Ω (Max)
- · Fast Switching
- 100% avalanche tested
- · Minimum Lot-to-Lot variations for robust device performance and reliable operation



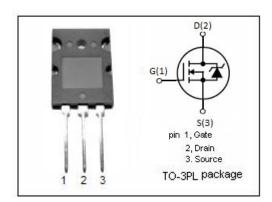
Switching Voltage Regulators

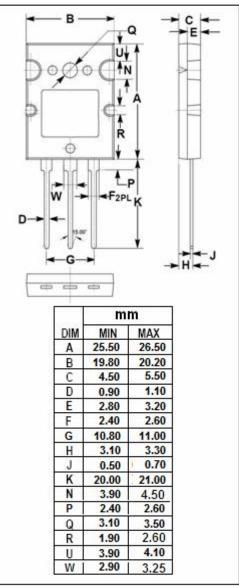
ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GS}	Gate-Source Voltage-Continuous	±30	V
I _D	Drain Current-Continuous	70	А
I _{DM}	Drain Current-Single Plused	245	А
P _D	Total Dissipation @Tc=25℃	1135	W
Tj	Max. Operating Junction Temperature	-55~150	$^{\circ}$
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.11	°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	600			V
$V_{\text{GS(th)}}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =2.5mA	2.5		5	٧
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 33A			90	mΩ
I _{GSS}	Gate-Body Leakage Current	V_{GS} = $\pm 30V; V_{DS}$ = 0			±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} =600V; V _{GS} = 0 V _{DS} =600V; V _{GS} = 0;T _J =125℃			250 1000	μΑ
V _{SD}	Diode Forward On-voltage	I _F = 33A;V _{GS} = 0			1	V

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