

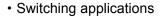
Isc N-Channel MOSFET Transistor

IPA65R660CFD

• FEATURES

- With TO-220F Package
- Drain Source Voltage-
 - : V_{DSS}=650V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 0.66 \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



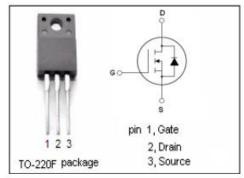


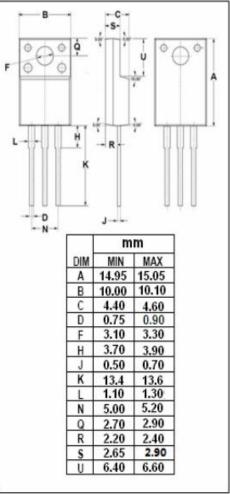
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	650	V	
V _{GSS}	Gate-Source Voltage	±20	V	
I _D	Drain Current-Continuous @Tc=25°C (V _{GS} at 10V) Tc=100°C	6 3.8	А	
I _{DM}	Drain Current-Single Pulsed	17	Α	
P _D	Total Dissipation @T _c =25℃	28	W	
Tj	Max. Operating Junction Temperature	-55~150	$^{\circ}\!$	
T _{stg}	Storage Temperature	-55~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.5	°C/W
Rth(ch-a)	Channel-to-ambient thermal resistance	80	°C/W







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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYPE	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	650			V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.21mA	3.5	4	4.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =2.1A		0.59	0.66	Ω
I _{GSS}	Gate-Source Leakage Current	V_{GS} = $\pm 20V; V_{DS}$ = $0V$			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V;Tj=25°C V _{DS} = 600V; V _{GS} = 0V; Tj=150°C		600	5	μ A
V _{SDF}	Diode forward voltage	I _{SD} = 3.2A, V _{GS} = 0 V		0.9		V



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