

Isc N-Channel MOSFET Transistor

IPA60R460CE

FEATURES

- With TO-220F package
- · Low input capacitance and gate charge
- · Low gate input resistance
- Reduced switching and conduction losses
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

· Switching applications

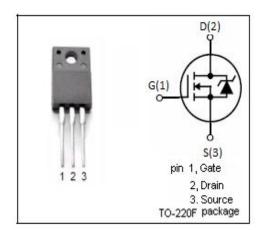


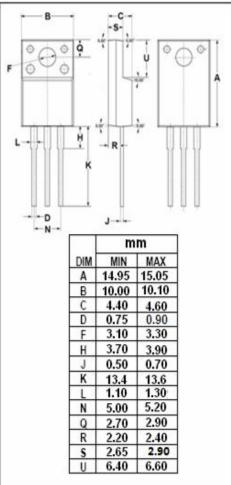
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	V	
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous @Tc=25℃ (V _{GS} at 10V) Tc=100℃		А
I_{DM}	Drain Current-Single Pulsed	26	А
P _D	Total Dissipation @Tc=25℃	30	W
Tj	Max. Operating Junction Temperature -40~1		$^{\circ}\!$
T _{stg}	Storage Temperature	-40~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	4.2	°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	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	600			V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.28mA	2.5	3	3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =3.4A;Tj=25℃ V _{GS} = 10V; I _D =3.4A; Tj=150℃		0.41 1.05	0.46	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±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		10	1	μА
V _{SDF}	Diode forward voltage	I _{SD} =3.4A, V _{GS} = 0 V		0.9		V



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