

Isc N-Channel MOSFET Transistor

IPA50R800CE

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

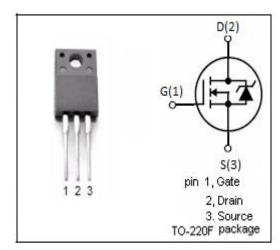


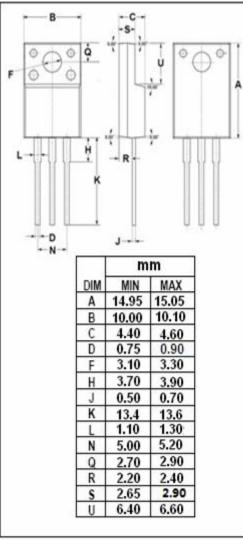
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	500	V	
V _{GSS}	Gate-Source Voltage	±30	V	
I _D	Drain Current-Continuous @Tc=25°C (V _{GS} at 10V) Tc=100°C	7.6 4.8	А	
I _{DM}	Drain Current-Single Pulsed	15.5	Α	
P _D	Total Dissipation @Tc=25℃	26.4	W	
Tj	Max. Operating Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-40~150	$^{\circ}$ C	

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT		
Rth(ch-c)	Channel-to-case thermal resistance 4.7		°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	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =1mA	500			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D =0.13mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =1.5A		720	800	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μ А
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 500V; V _{GS} = 0V;Tj=25℃ V _{DS} = 500V; V _{GS} = 0V; Tj=150℃			1 250	μ А
V _{SDF}	Diode forward voltage	I _{SD} =1.9A, V _{GS} = 0 V			1.2	V

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