

iscN-Channel MOSFET Transistor

IRFIBC40GLC

• FEATURES

• Low drain-source on-resistance:

 $Ros(ON) = 1.2\Omega$ (MAX)

• Enhancement mode:

Vth = 2 to 4V (VDS = 10 V, ID=0.25mA)

- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

Switching Voltage Regulators

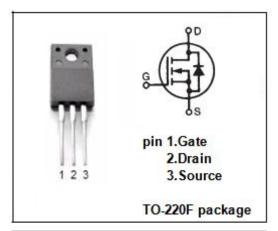


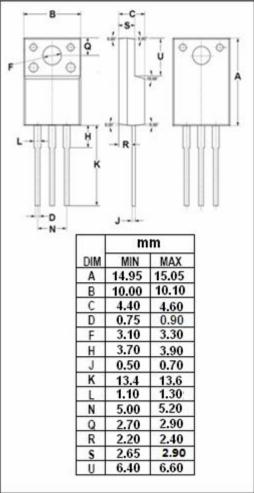
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

ABOOLOTE MAXIMOM (TATINGO(Ta=20 C)							
SYMBOL	PARAMETER	VALUE	UNIT				
V _{DSS}	Drain-Source Voltage	600	V				
V _{GS}	Gate-Source Voltage	±20	V				
I _D	Drain Current-Continuous	3.5	А				
I _{DM}	Drain Current-Single Pulsed	14	А				
P _D	Total Dissipation @Tc=25°C	40	W				
Tj	Max. Operating Junction Temperature	-55~150	$^{\circ}$ C				
T _{stg}	Storage Temperature	-55~150	$^{\circ}$				

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	3.1	°C/W







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ELECTRICAL CHARACTERISTICS

Tc=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} = 10V; I _D =0.25mA	2		4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D = 2.1A			1.2	Ω
lgss	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V V _{DS} =480V; V _{GS} = 0V; T _J =125℃			25 250	μА
V _{SDF}	Diode forward voltage	I _{DR} =3.5A, V _{GS} = 0 V			1.5	V

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