

# isc N-Channel MOSFET Transistor

**BMS4007** 

#### FEATURES

- · With TO-220F packaging
- · High speed switching
- · Low gate input resistance
- · Standard level gate drive
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

## APPLICATIONS

- Power supply
- Switching applications

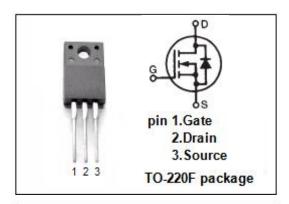


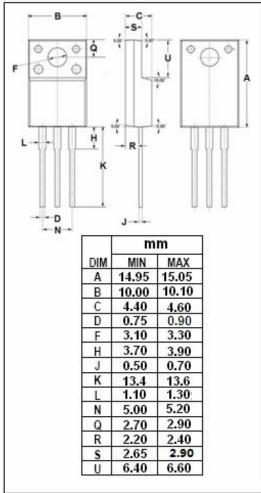
# ABSOLUTE MAXIMUM RATINGS(T<sub>a</sub>=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V <sub>DSS</sub>	Drain-Source Voltage	75	V
V <sub>GSS</sub>	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current-Continuous;@Tc=25℃	60	А
I <sub>DM</sub>	Drain Current-Single Pulsed	240	А
P <sub>D</sub>	Total Dissipation	30	W
T <sub>j</sub>	Operating Junction Temperature 150		$^{\circ}$
T <sub>stg</sub>	Storage Temperature	-55~150	$^{\circ}$

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	4.17	°C/W







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#### **ELECTRICAL CHARACTERISTICS**

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV <sub>DSS</sub>	Drain-Source Breakdown Voltage	V <sub>GS</sub> =0V; I <sub>D</sub> = 1mA	75			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; I <sub>D</sub> = 1mA	2		4	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> =30A			7.8	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	$V_{GS}$ = $\pm 16V; V_{DS}$ = $0V$			±10	uA
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = 75V; V <sub>GS</sub> = 0V			10	uA
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> =60A, V <sub>GS</sub> = 0 V			1.2	V

#### **NOTICE:**

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