

# isc N-Channel MOSFET Transistor

# **FDB060AN08A0**

#### FEATURES

- · With TO-263 packaging
- · Drain Source Voltage-
  - : V<sub>DSS</sub> ≥ 75V
- Static drain-source on-resistance:
  R<sub>DS</sub>(on) ≤ 6mΩ@V<sub>GS</sub>=10V
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



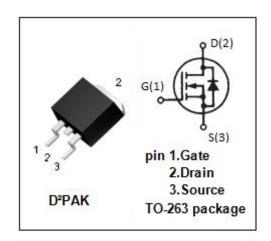
- Power supply
- · Switching applications

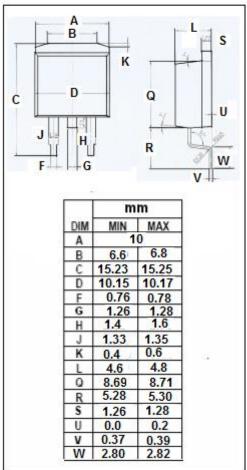
### • ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
$V_{DSS}$	Drain-Source Voltage	75	V
$V_{GSS}$	Gate-Source Voltage	±20	V
I <sub>D</sub>	Drain Current-Continuous;@Tc=25℃	80	Α
$P_D$	Total Dissipation	255	W
Tj	Operating Junction Temperature -55~175		${\mathbb C}$
T <sub>stg</sub>	Storage Temperature	-55~175	$^{\circ}$

### • THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	0.58	°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> = 250uA	75			V
V <sub>GS(th)</sub>	Gate Threshold Voltage	V <sub>DS</sub> =V <sub>GS</sub> ; I <sub>D</sub> =250uA	2		4	V
R <sub>DS(on)</sub>	Drain-Source On-Resistance	V <sub>GS</sub> = 10V; I <sub>D</sub> = 80A			6	mΩ
I <sub>GSS</sub>	Gate-Source Leakage Current	V <sub>GS</sub> =±20V;V <sub>DS</sub> = 0V			±100	nA
I <sub>DSS</sub>	Drain-Source Leakage Current	V <sub>DS</sub> = 60V; V <sub>GS</sub> = 0V V <sub>DS</sub> = 60V; V <sub>GS</sub> = 0V;T <sub>J</sub> =150°C			1 250	μА
V <sub>SDF</sub>	Diode forward voltage	I <sub>SD</sub> = 80A, V <sub>GS</sub> = 0 V			1.25	V

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