

isc N-Channel MOSFET Transistor

FDB035AN06A0

• FEATURES

- · With TO-263(D2PAK) packaging
- · Single pulse and repetitive pulse
- · High speed switching
- · Low miller charge
- · Easy to use
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operationz

APPLICATIONS



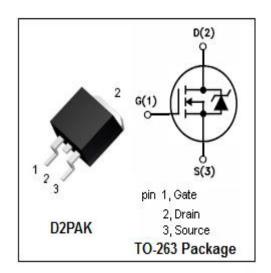
- PFC stages, hard switching PWM stages and resonant switching
- PC Silverbox, Adapter, LCD & PDP TV
- · Lighting, Server, Telecom and UPS

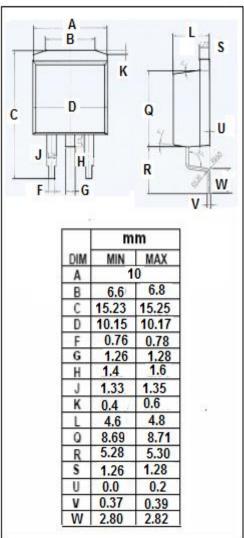
• ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous@ T_c =25° C T_c =100° C	80 22	А
I _{DM}	Drain Current-Single Pulsed	400	А
P _D	Total Dissipation	310	W
Tj	Operating Junction Temperature	-55~175	${\mathbb C}$
T _{stg}	Storage Temperature	-55~175	${\mathbb C}$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER N		UNIT		
Rth(ch-c)	Channel-to-case thermal resistance	0.48	°C/W		
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°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	60			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =0.25mA			4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =80A		6.5	7.1	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±1	μ A
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V@Tj=25℃ Tj=150℃			1 250	μА
V _{SDF}	Diode forward voltage	I _{SD} =80A, V _{GS} = 0 V			1.25	V

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