

isc N-Channel MOSFET Transistor

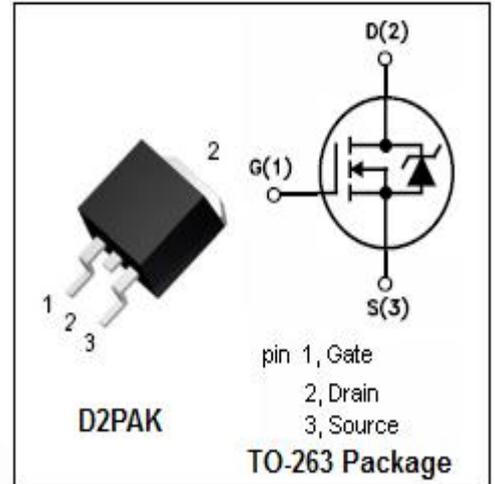
FDB035AN06A0

• 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

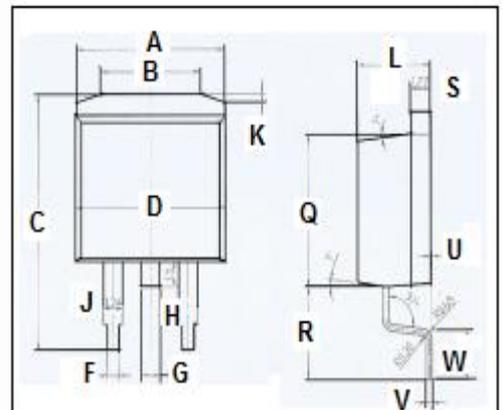
• APPLICATIONS

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



• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

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	A
I _{DM}	Drain Current-Single Pulsed	400	A
P _D	Total Dissipation	310	W
T _j	Operating Junction Temperature	-55~175	°C
T _{stg}	Storage Temperature	-55~175	°C



DIM	mm	
	MIN	MAX
A	10	
B	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
H	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
Q	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	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°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	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	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 60V; V _{GS} = 0V@T _j =25°C T _j =150°C			1 250	μA
V _{SDF}	Diode forward voltage	I _{SD} =80A, V _{GS} = 0 V			1.25	V