

isc N-Channel MOSFET Transistor

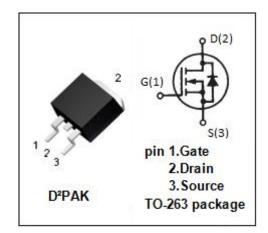
AOB416

• FEATURES

- Drain Current –I_D= 45A@ T_C=25 °C
- · Drain Source Voltage-
 - : V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)} = 36m \Omega (Max)$
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

 Be suitable for synchronous rectification for server and general purpose applications

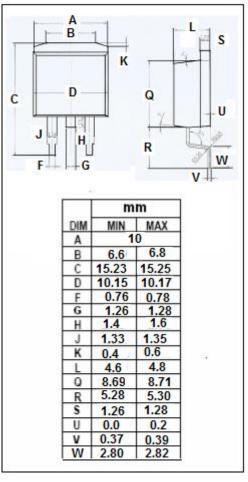


• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage	±20	٧
I _D	Drain Current-Continuous	45	Α
I _{DM}	Drain Current-Single Pulsed	120	Α
P _D	Total Dissipation @Tc=25°C	150	W
Tj	Max. Operating Junction Temperature	-55~175	$^{\circ}$
T _{stg}	Storage Temperature	-55~175	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(ch-c)	Channel-to-case thermal resistance	1	°C/W



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 250 μ A	100		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 250 μ A	2.8	4	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 20A V _{GS} = 10V; I _D = 20A;T _J = 125℃		36 65	m Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±25V;V _{DS} = 0V		±100	nA
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 100V; V _{GS} = 0V V _{DS} = 100V; V _{GS} = 0V;T _J = 55°C		10 50	μА
V_{SD}	Diode forward voltage	Is= 1A; V _{GS} = 0V		1	٧

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