

isc P-Channel MOSFET Transistor

FQB34P10

FEATURES

- Drain Current $-I_D = -33.5A @ T_C = 25^\circ C$
- Drain Source Voltage $-V_{DSS} = -100V(\text{Min})$
- Static Drain-Source On-Resistance
 $-R_{DS(on)} = 60m\Omega(\text{Max}) @ V_{GS} = -10V$

DESCRIPTION

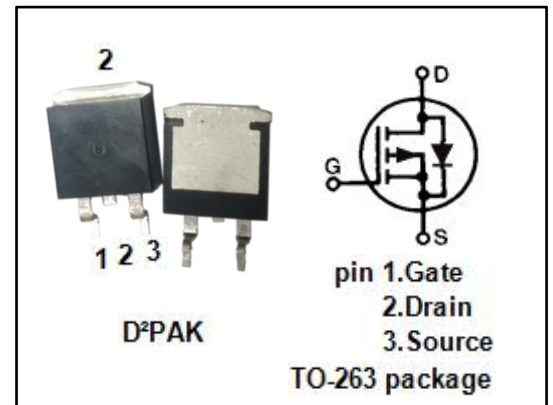
- Switched mode power supplies, audio amplifier,
DC motor control, and variable switching power applications.

ABSOLUTE MAXIMUM RATINGS($T_a = 25^\circ C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	-100	V
V_{GS}	Gate-Source Voltage-Continuous	± 25	V
I_D	Drain Current-Continuous	-33.5	A
I_{DM}	Drain Current-Single Pluse	-134	A
P_D	Total Dissipation @ $T_C = 25^\circ C$	155	W
T_J	Max. Operating Junction Temperature	175	$^\circ C$
T_{stg}	Storage Temperature	-55~175	$^\circ C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th j-c}$	Thermal Resistance, Junction to Case	0.97	$^\circ C/W$



DIM	mm	
	MIN	MAX
A	9.8	10.2
B	6.6	6.8
C	15.1	15.3
D	9.6	10
F	0.7	0.9
G	1.26	1.3
H	1.2	1.45
L	4.4	4.6
Q	9.2	9.3
S	1.25	1.35
V	0.4	0.6
W	2.6	2.8

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ELECTRICAL CHARACTERISTICS ($T_c=25^{\circ}\text{C}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	$V_{GS}=0$; $I_D=-250\mu\text{A}$	-100	--	V
$V_{GS(th)}$	Gate Threshold Voltage	$V_{DS}=V_{GS}$; $I_D=-250\mu\text{A}$	-2.0	-4.0	V
$R_{DS(on)}$	Drain-Source On-Resistance	$V_{GS}=-10\text{V}$; $I_D=-16.75\text{A}$	--	60	$\text{m}\Omega$
I_{GSS}	Gate-Body Leakage Current	$V_{GS}=\pm 25\text{V}$; $V_{DS}=0$	--	± 100	nA
I_{DSS}	Zero Gate Voltage Drain Current	$V_{DS}=-100\text{V}$; $V_{GS}=0$	--	-1	μA
V_{SD}	Forward On-Voltage	$I_S=-33.5\text{A}$; $V_{GS}=0$	--	-4.0	V

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