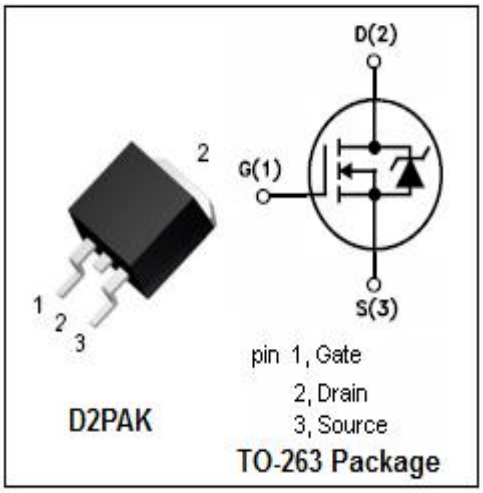
isc N-Channel MOSFET Transistor 75N75

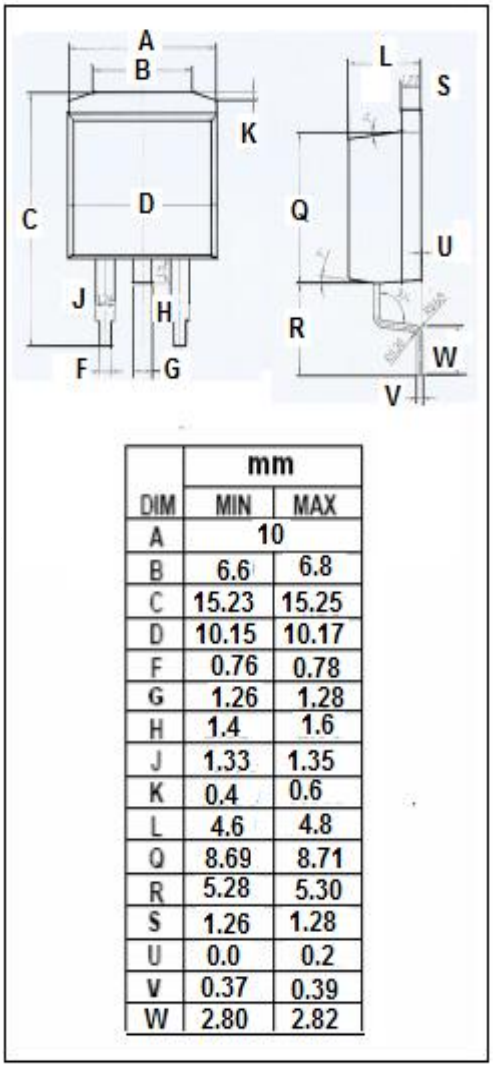
FEATURES

- Drain Current –I_D= 75A@ T_C=25℃
- Drain Source Voltage-
  : V_{DSS}= 75V(Min)
- Static Drain-Source On-Resistance
  : $R_{DS(on)}$ = 0.011Ω (Max)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Solenoid and relay drivers
- DC motor control
- DC-DC converters DC
- Automotive environment



DIM	mm MIN	mm 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

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{DSS}	Drain-Source Voltage	75	V
V_{GS}	Gate-Source Voltage-Continuous	±20	V
I_D	Drain Current-Continuous@T_C=25℃	75	A
	Drain Current-Continuous@T_C=100℃	60	
I_{DM}	Drain Current-Single Pluse	300	A
P_D	Total Dissipation @T_C=25℃	150	W
T_J	Max. Operating Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	0.65	℃/W
$R_{th\ j\text{-}a}$	Thermal Resistance, Junction to Ambient	62	℃/W

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)DSS}$	Drain-Source Breakdown Voltage	V_{GS}= 0; I_D= 0.25mA	75		V
$V_{GS(th)}$	Gate Threshold Voltage	V_{DS}= V_{GS}; I_D= 0.25mA	2	4	V
$R_{DS(on)}$	Drain-Source On-Resistance	V_{GS}= 10V; I_D= 40A		0.011	Ω
I_{GSS}	Gate-Body Leakage Current	V_{GS}= ±20V;V_{DS}= 0		±100	nA
I_{DSS}	Zero Gate Voltage Drain Current	V_{DS}= 75V; V_{GS}= 0 V_{DS}= 60V; V_{GS}= 0; T_j= 150℃		1 100	μA
V_{SD}	Forward On-Voltage	I_S= 78A; V_{GS}=0		1.5	V