

isc N-Channel MOSFET Transistor

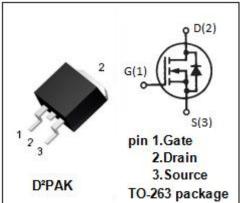
SKI10195

FEATURES

- Drain Current –I_D= 47A@ T_C=25 $^\circ\!\mathrm{C}$
- Drain Source Voltage-: V_{DSS}= 100V(Min)
- Static Drain-Source On-Resistance
- : R_{DS(on)} = 18.4m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRIPTION

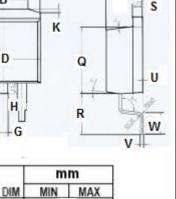
• Designed for use in switch mode power supplies and general purpose applications.



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	100	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
ID	Drain Current-Continuous	47	A
I _{DM}	Drain Current-Single Pluse	94	A
P _D	Total Dissipation @T _C =25℃	116	w
TJ	Max. Operating Junction Temperature 150		°C
T _{stg}	Storage Temperature -55~		°C

D²PAK TO-263 package



DIM	MIN	MAX
A	1	0
В	6.6	6.8
С	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
Н	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
0	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	
R _{th j-c}	Thermal Resistance, Junction to Case	1.1	°C/W	

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V(BR)DSS	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 0.1mA	100		V
V _{GS} (th)	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	1.0	2.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 23.4A		18.4	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0		±100	nA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 100V; V _{GS} = 0		100	μA
V _{SD}	Forward On-Voltage	I _S = 23.4A; V _{GS} = 0		1.5	V

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