

isc N-Channel MOSFET Transistor

FK20SM-10

FEATURES

- Drain Current –I_D= 20A@ T_C=25°C
- · Drain Source Voltage-
 - : V_{DSS}= 500V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 360m Ω (Max)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

pin 1.Gate 2.Drain 3.Source TO-3PN package

DESCRIPTION

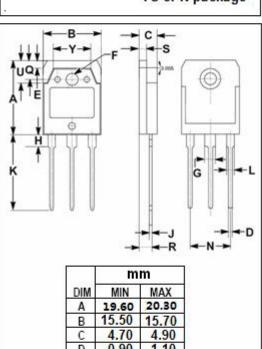
• Designed for use in switch mode power supplies and general purpose applications.

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

7.2552512 2455(1,2,255)					
SYMBOL	PARAMETER	VALUE	UNIT		
V _{DSS}	Drain-Source Voltage	500	V		
V _{GS}	Gate-Source Voltage-Continuous	±30	V		
Ι _D	Drain Current-Continuous	20	Α		
I _{DM}	Drain Current-Single Pluse	60	Α		
P _D	Total Dissipation @T _C =25℃	275	w		
TJ	Max. Operating Junction Temperature	-55~150	$^{\circ}$		
T _{stg}	Storage Temperature	-55~150	℃		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.45	°C/W



DIM	MIN	MAX
Α	19.60	20.30
В	15.50	15.70
С	4.70	4.90
D	0.90	1.10
E	1.90	2.10
F	3.40	3.60
G	2.90	3.20
H	3.20	3.40
J	0.595	0.605
K	19.80	20.70
L	1.90	2.20
N	10.89	10.91
Q	4.90	5.10
R	3.35	3.45
S	1.995	2.100
U	5.90	6.20
Y	9.90	10.10



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ELECTRICAL CHARACTERISTICS

Tc=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{(BR)DSS}	Drain-Source Breakdown Voltage	V _{GS} = 0; I _D = 1mA	500		V
$V_{GS(th)}$	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 1mA	2.0	4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 10A		360	mΩ
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±25V;V _{DS} = 0		±10	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 500V; V _{GS} = 0		1.0	mA
V _{SD}	Forward On-Voltage	I _S = 10A; V _{GS} = 0		2.0	V

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