

isc N-Channel MOSFET Transistor

CSD18533KCS

FEATURES

- Drain Current : I_D= 100A@ T_C=25℃
- · Drain Source Voltage
 - : V_{DSS}= 60V(Min)
- Static Drain-Source On-Resistance
 - : $R_{DS(on)}$ = 6.3m Ω (Max) @ V_{GS} = 10V
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



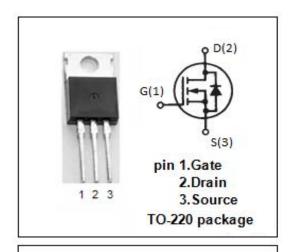
 motor drive, DC-DC converter, power switch and solenoid drive.

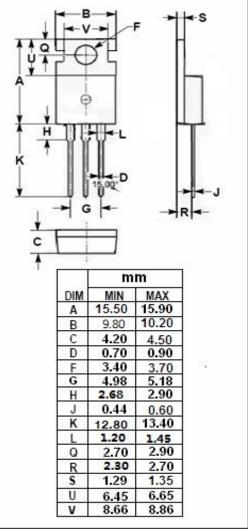
ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	60	V
V _{GS}	Gate-Source Voltage-Continuous	±20	V
I _D	Drain Current-Continuous	100	А
І _{DМ}	Drain Current-Single Pluse	140	А
P _D	Total Dissipation @T _C =25℃ 192		W
TJ	Max. Operating Junction Temperature -55~175		$^{\circ}$
T _{stg}	Storage Temperature -55~175		$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	0.78	°C/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	60	-	V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} = V _{GS} ; I _D = 0.25mA	1.5	2.3	V
R _{DS(on)1}	Drain-Source On-Resistance	V _{GS} = 10V; I _D = 75A	-	6.3	m Ω
R _{DS(on)2}	Drain-Source On-Resistance	V _{GS} = 4.5V; I _D = 75A	-	9.0	m Ω
I _{GSS}	Gate-Body Leakage Current	V _{GS} = ±20V;V _{DS} = 0	-	±1.0	uA
I _{DSS}	Zero Gate Voltage Drain Current	V _{DS} = 48V; V _{GS} = 0	-	1.0	uA
V _{SD}	Forward On-Voltage	I _S = 75A; V _{GS} = 0	1	1.0	V

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