

isc N-Channel MOSFET Transistor TJ11A10M3, ITJ11A10M3

• FEATURES

- Low drain-source on-resistance:
 $R_{DS(on)} \leq 130m\Omega$ ($V_{GS} = -10V$)
- Enhancement mode:
 $V_{th} = -2.0$ to $-4.0V$ ($V_{DS} = -10V$, $I_D = -1mA$)
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

• DESCRIPTION

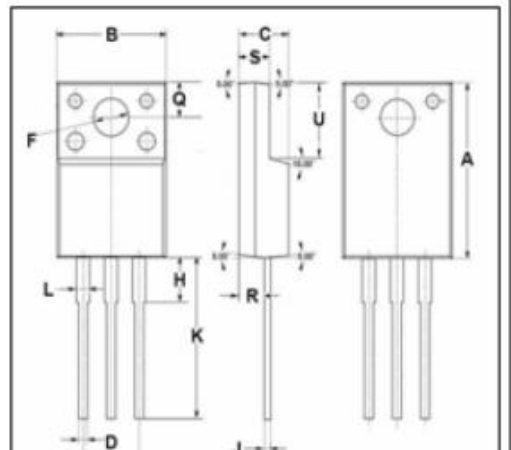
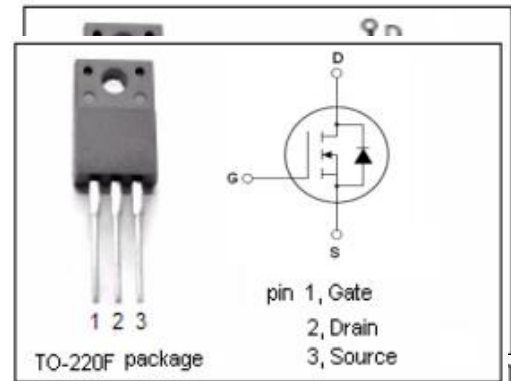
- Switching Voltage Regulators

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{DS}	Drain-Source Voltage	-100	V
V_{GS}	Gate-Source Voltage	± 20	V
I_D	Drain Current-Continuous	-11	A
I_{DM}	Drain Current-Single Pulsed	-22	A
P_D	Total Dissipation @ $T_c=25^\circ C$	24	W
T_j	Max. Operating Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55~150	$^\circ C$

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th(ch-c)}$	Channel-to-case thermal resistance	5.2	$^\circ C/W$
$R_{th(ch-a)}$	Channel-to-ambient thermal resistance	62.5	$^\circ C/W$



DIM	mm	
	MIN	MAX
A	14.95	15.05
B	10.00	10.10
C	4.40	4.60
D	0.75	0.90
F	3.10	3.30
H	3.70	3.90
J	0.50	0.70
K	13.4	13.6
L	1.10	1.30
N	5.00	5.20
Q	2.70	2.90
R	2.20	2.40
S	2.65	2.90
U	6.40	6.60

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SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =-10mA	-100			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =-10V; I _D =-1mA	-2.0		-4.0	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =-10V; I _D =-5.5A			130	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V; V _{DS} = 0V			±0.1	μA
I _{DSS}	Drain-Source Leakage Current	V _{DS} =-100V; V _{GS} = 0V			-10	μA
V _{SDF}	Diode forward voltage	I _{DR} =-11A, V _{GS} = 0 V			-1.4	V

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