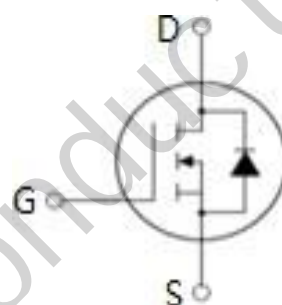
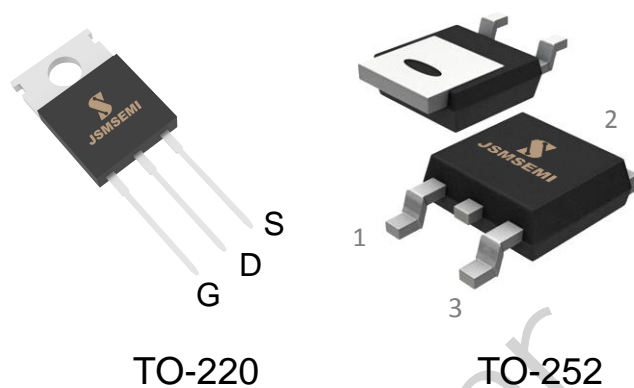


FEATURES

- Output current in excess of 1.5A
- Output voltage of -12V
- Internal thermal overload protection
- Output transition Safe-Area compensation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	RATING	UNIT
V _i	DC input voltage	-35	V
I _o	Output current	internally limited	
P _{tot}	Power dissipation	internally limited	
T _{OP}	Operating junction temperature	0~150	°C
T _{stg}	Storage temperature	-55~150	°C

THERMAL CHARACTERISTICS

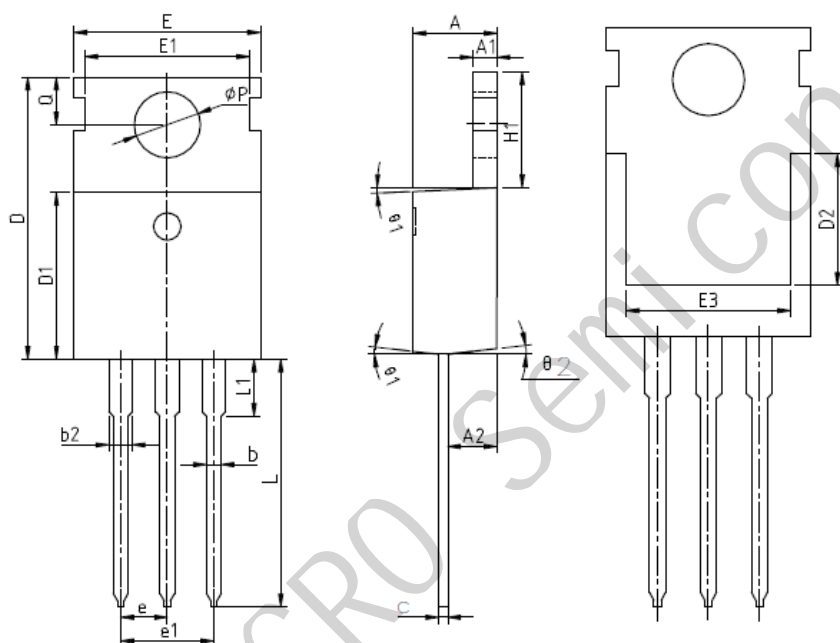
SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	3	°C/W
R _{th j-a}	Thermal Resistance, Junction to Ambient	50	°C/W

• ELECTRICAL CHARACTERISTICS
 $T_j=25^{\circ}\text{C}$ ($V_i=-19\text{V}$, $I_o=0.5\text{A}$, $C_i=2.2\mu\text{F}$, $C_o=1\mu\text{F}$ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V_o	Output Voltage	$V_{in}=-19\text{V}$; $I_o=0.5\text{A}$	-11.5	-12	-12.5	V
V_o	Output Voltage	$V_{in}=-15.5\text{to}-27\text{V}$; $I_o=5\text{mA to }1\text{A}$; $P_o\leq 15\text{W}$	-11.4	-12	-12.6	V
ΔV_v	Line Regulation	$-14.5\text{V}\leq V_{in}\leq -30\text{V}$; $I_o=0.5\text{A}$ $-16\text{V}\leq V_{in}\leq -22\text{V}$; $I_o=0.5\text{A}$			240 120	mV
ΔV_i	Load Regulation	$5.0\text{mA}\leq I_o\leq 1.5\text{A}$; $250\text{mA}\leq I_o\leq 750\text{mA}$;			240 120	mV
I_d	Quiescent Current	$V_{in}=-19\text{V}$; $I_o=0.5\text{A}$			3	mA
Δ_{d1}	Quiescent Current Change	$5.0\text{mA}\leq I_o\leq 1.0\text{A}$; $V_{in}=-19\text{V}$			0.5	mA
Δ_{d2}	Quiescent Current Change	$-15\text{V}\leq V_{in}\leq -30\text{V}$; $I_o=0.5\text{A}$			1	mA

Package Information

TO-220



SYMBOL	MIN	NOM	MAX
A	4.27	4.57	4.87
A1	1.15	1.30	1.45
A2	2.10	2.40	2.70
b	0.70	0.80	1.00
b2	1.17	1.27	1.50
c	0.40	0.50	0.65
D	15.10	15.60	16.10
D1	8.80	9.10	9.40
D2	5.70	6.70	7.00
E	9.70	10.00	10.30
E1	-	8.70	-
E2	9.65	10.00	10.35
E3	7.00	8.00	8.40
e	2.54		BSC
e1	5.08		BSC
H1	6.00	6.50	6.85
L	12.75	13.50	13.90
L1	-	3.10	3.40
φP	3.45	3.60	3.75
Q	2.60	2.80	3.00
θ 1	4°	7°	10°
θ 2	0°	3°	6°