

FEATURE

- Low gate charge
- Low C_{iss}
- Fast switching
- 100% avalanche tested
- Improved dv/dt capability

Maximum output current

I_{OM}: 0.5 A

Output voltage

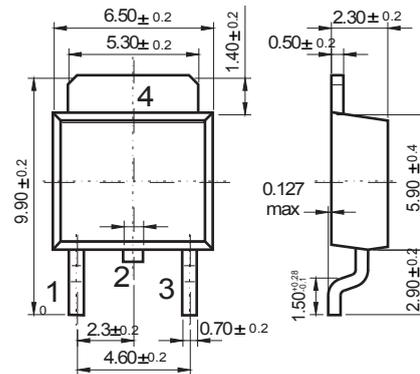
V_O: 12V

Continuous total dissipation

P_D: 1.25 W (T_a= 25 °C)

TO-252

Unit: mm



Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V _i	35	V
Operating Junction Temperature Range	T _{OPR}	0-+125	°C
Storage Temperature Range	T _{STG}	-65-+150	°C

ELECTRICAL CHARACTERISTICS (V_i=19V, I_o=350mA, C_i=0.33μF, C_o=0.1μF, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Output Voltage	V _o	25°C	11.5	12	12.5	V
		14.5≤V _i ≤27V, I _o =5mA-350mA P _o ≤ 1.25W	0-125°C	11.4	12	12.6
Load Regulation	ΔV _o	I _o =5mA-500mA	25°C	25	240	mV
		I _o =5mA-200mA	25°C	10	120	mV
Line Regulation	ΔV _o	14.5V≤V _i ≤30V, I _o =200mA	25°C	10	100	mV
		16V≤V _i ≤30V, I _o =200mA	25°C	3	50	mV
Quiescent Current	I _q	25°C		4.6	6	mA
Quiescent Current Change	ΔI _q	14.5V≤V _i ≤30V, I _o =200mA	0-125°C		0.8	mA
		5mA≤I _o ≤350mA	0-125°C		0.5	mA
Output Noise Voltage	V _N	10Hz≤f≤100KHz	25°C	75		μV
Ripple Rejection	RR	15≤V _i ≤25V, f=120Hz, I _o =300mA	0-125°C	55	80	dB
Dropout Voltage	V _d	I _o =350mA	25°C	2		V
Short Circuit Current	I _{sc}	V _i =19V	25°C	240		mA
Peak Current	I _{pk}	25°C		0.7		A

TYPICAL APPLICATION

