

FEATURE

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

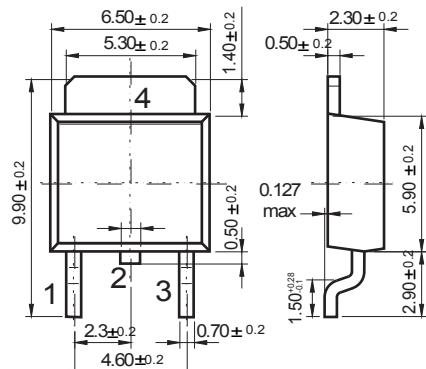
Maximum output current
 I_{OM} : 0.5 A

Output voltage
 V_o : 12V

Continuous total dissipation
 P_D : 1.25 W ($T_a = 25^\circ C$)

TO-252-2(DAPK)

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 (Vi=19V, Io=350mA, Ci=0.33μF, Co=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, Io=5mA-350mA Po≤ 1.25W	0-125°C	11.4	12	12.6	V
Load Regulation	ΔV_o	Io=5mA-500mA	25°C		25	240	mV
		Io=5mA-200mA	25°C		10	120	mV
Line Regulation	ΔV_o	14.5V≤ V_i ≤30V, Io=200mA	25°C		10	100	mV
		16V≤ V_i ≤30V, Io=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, Io=200mA	0-125°C			0.8	mA
	ΔI_q	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, Io=300mA	0-125°C	55	80		dB
Dropout Voltage	V_d	Io=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

