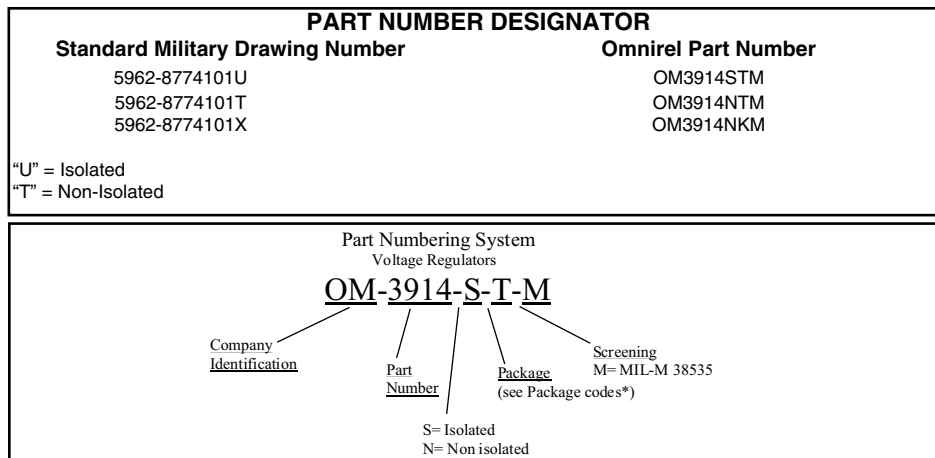


ELECTRICAL CHARACTERISTICS $-55^{\circ}\text{C} \leq T_A \leq +125^{\circ}\text{C}$ (unless otherwise specified)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Reference Voltage	V_{REF}	$ V_{\text{IN}} - V_{\text{OUT}} = 5\text{ V}, I_{\text{OUT}} = 5\text{ mA}, T_A = 25^{\circ}\text{C}$	-1.238	-1.262	V
		$3\text{ V} \leq V_{\text{IN}} - V_{\text{OUT}} \leq 35\text{ V}$	• -1.215	-1.285	
Line Regulation (Note 1)	$\frac{\Delta V_{\text{OUT}}}{\Delta V_{\text{IN}}}$	$3\text{ V} \leq V_{\text{IN}} - V_{\text{OUT}} \leq 35\text{ V}$		0.015	%V
			•	0.04	
Load Regulation (Note 1)	$\frac{\Delta V_{\text{OUT}}}{\Delta I_{\text{OUT}}}$	$ V_{\text{OUT}} \leq 5\text{ V}, T_A = 25^{\circ}\text{C}$		50	mV
		$10\text{ mA} \leq I_{\text{OUT}} \leq I_{\text{MAX}}$	•	75	
		$ V_{\text{OUT}} \geq 5.0\text{ V}$		1.0	%
		$10\text{ mA} \leq I_{\text{OUT}} \leq I_{\text{MAX}}$	•	1.5	
Thermal Regulation	-	30 ms pulse, $T_A = 25^{\circ}\text{C}$		0.02	%/W
Ripple Rejection (Note 2)	$\frac{\Delta V_{\text{IN}}}{\Delta V_{\text{REF}}}$	$ V_{\text{OUT}} = -10\text{ V}, f = 120\text{ Hz}, C_{\text{Adj}} = 0$		56	dB
			•	53	
		$ V_{\text{OUT}} = -10\text{ V}, f = 120\text{ Hz}, C_{\text{Adj}} = 10\text{ }\mu\text{F}$		70	dB
			•	60	
Adjust Pin Current	I_{Adj}	$V_{\text{DIFF}} = 35\text{ V}, I_L = 10\text{ mA}$	•	100	μA
Adjust Pin Current Change	ΔI_{Adj}	$10\text{ mA} \leq I_{\text{OUT}} \leq I_{\text{MAX}}$	•	2.0	μA
		$3\text{ V} \leq V_{\text{IN}} - V_{\text{OUT}} \leq 35\text{ V}$	•	5.0	
Minimum Load Current	I_{Min}	$ V_{\text{IN}} - V_{\text{OUT}} \leq 35\text{ V}$	•	5.0	mA
		$ V_{\text{IN}} - V_{\text{OUT}} \leq 10\text{ V}$	•	3.0	
Current Limit	I_{Lim}	$ V_{\text{IN}} - V_{\text{OUT}} \leq 10\text{ V}$		3.0	A
			•	3.0	
		$ V_{\text{IN}} - V_{\text{OUT}} = 35\text{ V}$		0.5	A
			•	0.5	
Temperature Stability (Note 2)	$\frac{\Delta V_{\text{OUT}}}{\Delta T}$	$-55^{\circ}\text{C} \leq T_J \leq +125^{\circ}\text{C}$	•	1.5	%
Long Term Stability (Note 2)	$\frac{\Delta V_{\text{OUT}}}{\Delta T}$	$T_A = +125^{\circ}\text{C}, t = 1000\text{ hrs}$		1.0	%

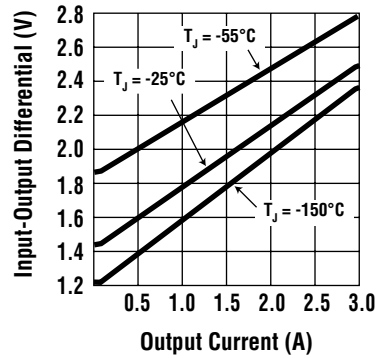
Notes:

- Line and Load Regulation are measured at a constant junction temperature using a low duty cycle pulse technique. Although power dissipation is internally limited, regulation is guaranteed up to the maximum power dissipation of 30 W. Power dissipation is determined by the input/output differential voltage and the output current. Guaranteed maximum power dissipation will not be available over the full input/output voltage range.
- Guaranteed by design, characterization or correlation to other tested parameters.
- The • denotes the specifications which apply over the full operating temperature range.

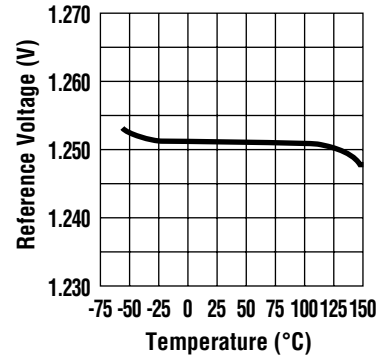
3.3

TYPICAL PERFORMANCE CHARACTERISTICS

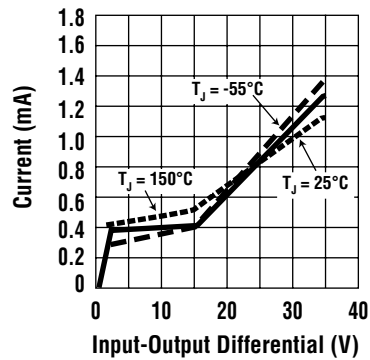
DROPOUT VOLTAGE



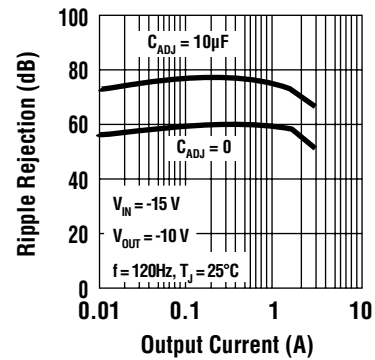
TEMPERATURE STABILITY



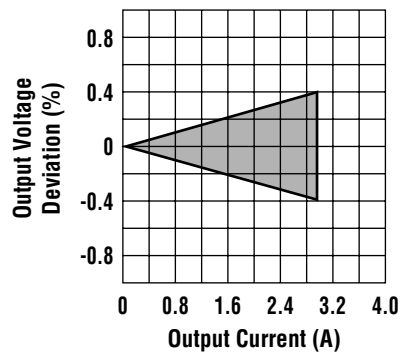
MINIMUM LOAD CURRENT



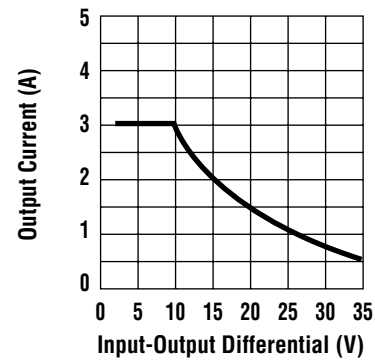
RIPPLE REJECTION



LOAD REGULATION

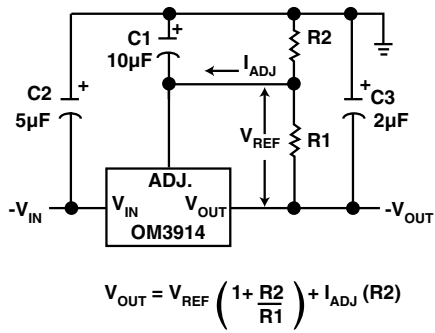


GUARANTEED MINIMUM OUTPUT CURRENT

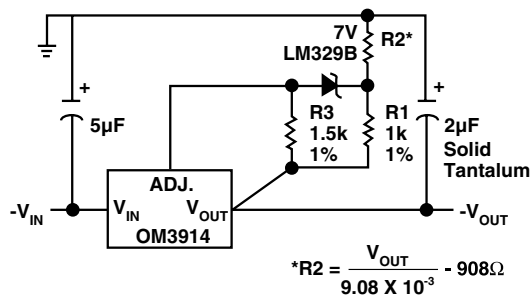


3.3

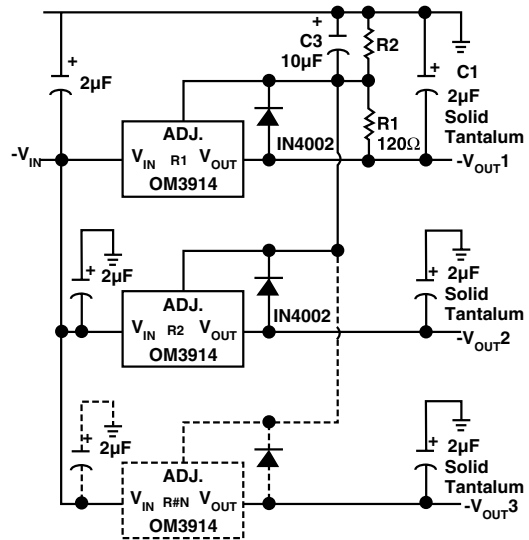
TYPICAL APPLICATIONS



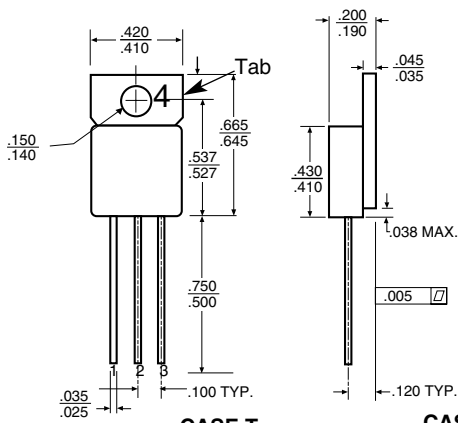
HIGH STABILITY REGULATOR



MULTIPLE TRACKING REGULATORS

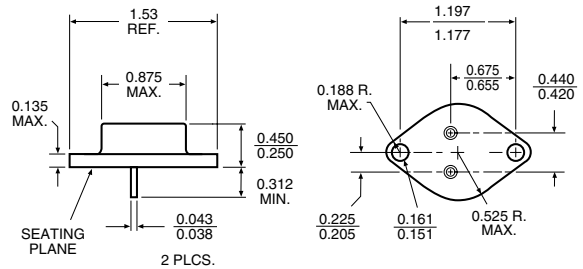


MECHANICAL OUTLINES



Front View

TO-3



OM3914NKM

Pin 1 - Adjust
Pin 2 - Vout
Case - Vin

NOTES:

- Case is metal/hermetically sealed
- Isolated Tab