

RAZC-2



Absolute Maximum Ratings

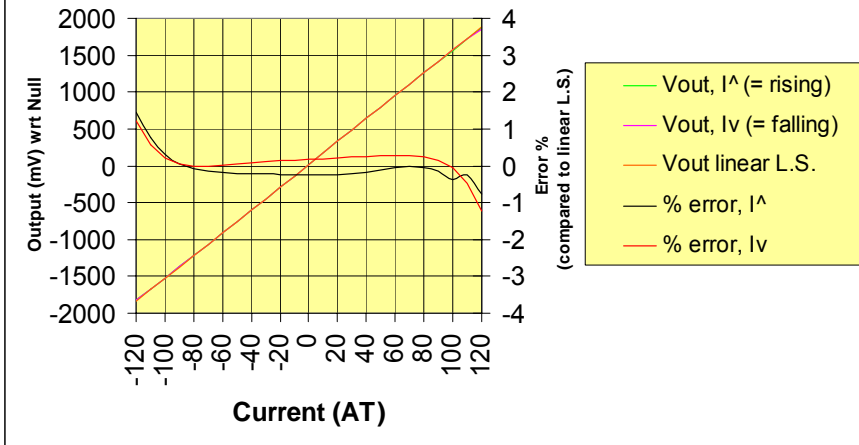
Parameter	Symbol	Value	Unit
Operating Temperature	T_A	-40 to +85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-65 to +150	$^{\circ}\text{C}$
Supply Voltage	V_s	8	V
Output Sinking Current	I_o	10	mA
Measured Current	I_m	Limited by conductor	A

Characteristics ($T_A = 25^{\circ}\text{C}$ unless stated, $V_s = 5\text{V}$)

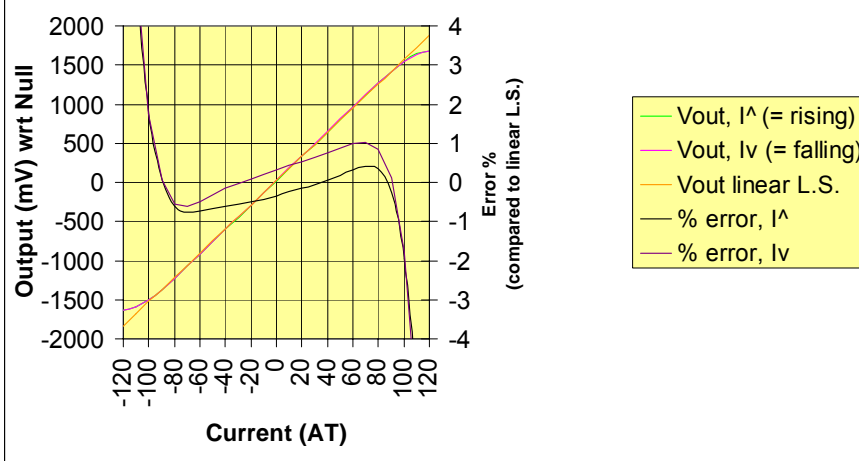
Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current (no load)	I_s			11 ¹	mA
Supply Voltage	V_s	4.5	5.0	6.0	V
Current range for <+/-1% error (-25 to +85 $^{\circ}\text{C}$)	I_m	+/-100			A
Power-on settling time to 99%	t_{po}			15	μs
Null Output Voltage	V_o	2.4	2.5	2.6	V
Transfer Function (per turn, -25 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$)	$\Delta V/I$	11.4	15	19.3	mV/A
Combined non-linearity and hysteresis error (+/-100A, -25 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$)				1.0	%
Null drift due to temperature change	$TC_{\Delta V_o/V_o}$			+/-0.25	mV/K
Gain change due to temperature change	TC_G	-0.1	0.1	0.18	%/K
Rise time 0 to 20AT	t_r			14	μs
Frequency response	$f_{-3\text{dB}}$		35		kHz
Output resistance	R_o		2	5	Ω

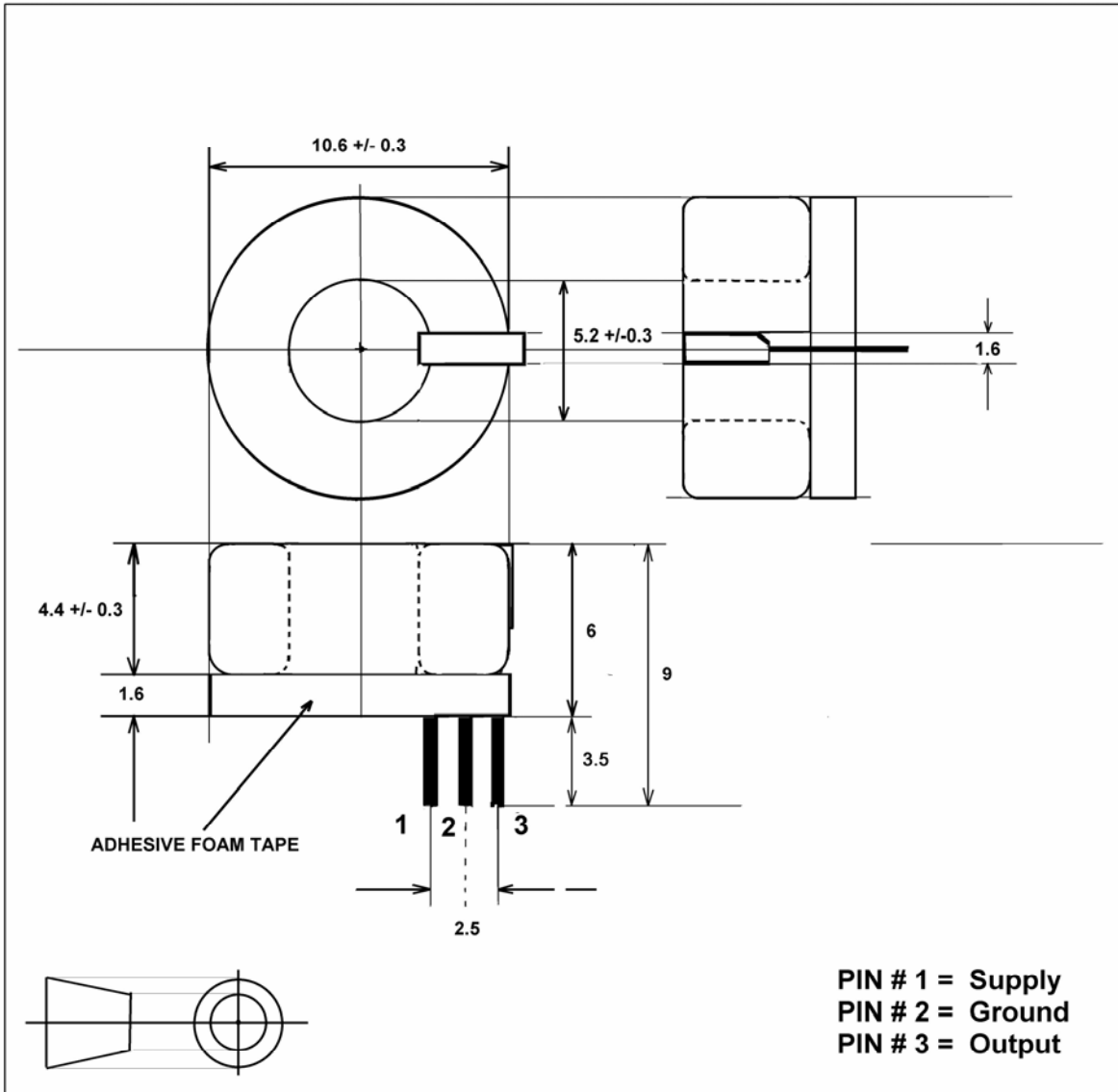
¹ For lower supply current requirements, fast stabilization allows pulsed supply current operation. Typically 50 μA achievable for AC operation.

**RAZC-2, at 30°C ,
Typical Transfer function.**



**RAZC-2, at 100°C ,
Typical Transfer function.**





<p>TOLERANCES: 0.X = +/- 0.1 0.XX = +/- 0.02</p>	<p>29/8/05 Lead length extended from 3mm to 3.5mm 29/8/05 Magnetic sensor package size reduced</p>		
<p>PRODUCT: RAZC</p>	<p>SCALE: NTS</p>	<p>DRG # 290805</p>	
<p>RAZTEC (NZ) LTD</p>	<p>DATE: 28th September 2000</p>	<p>DRAWN:</p>	<p>CHECKED:</p>
		<p>REVISION: 1.1</p>	