



RAZCL-104OKAN CURRENT SENSOR



Rev 3.0

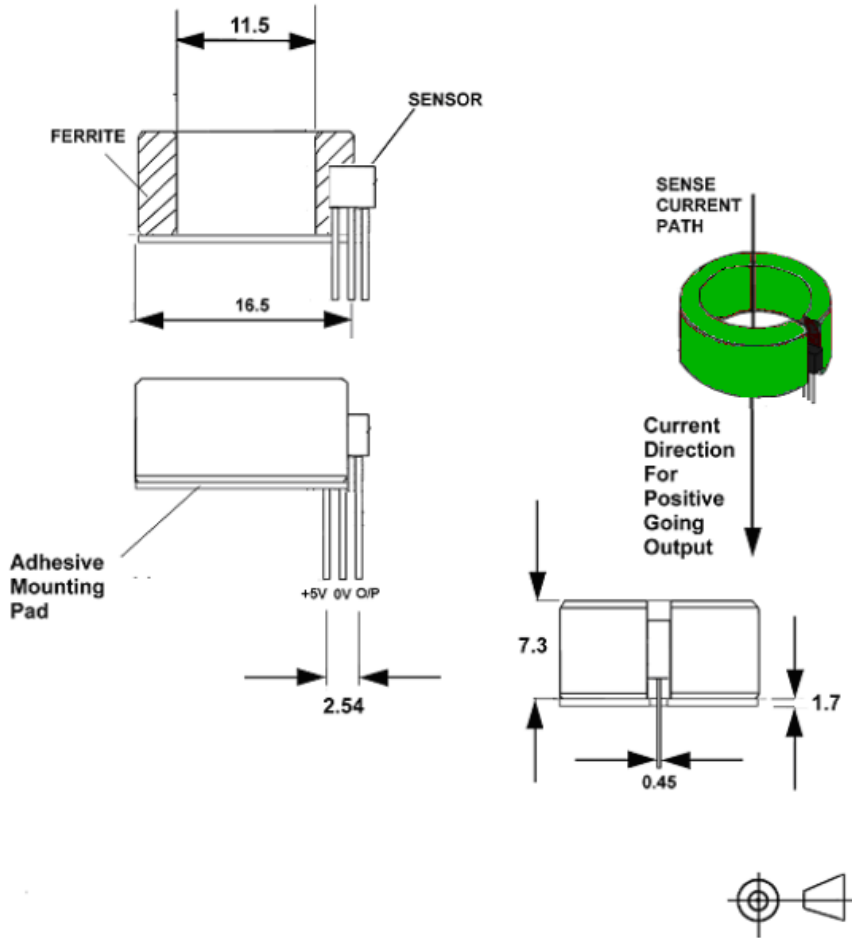
Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Operating Temperature	T_A	-40 to +120	$^{\circ}\text{C}$
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

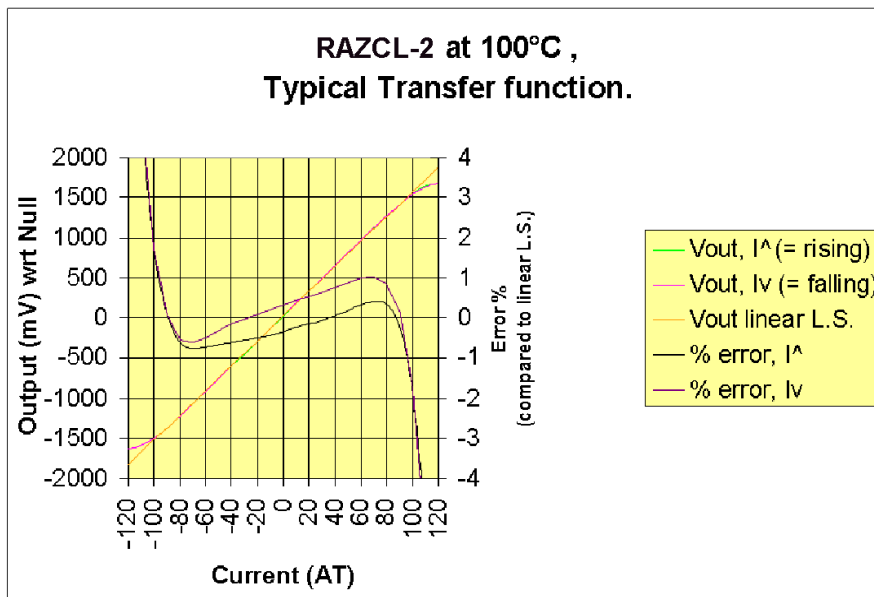
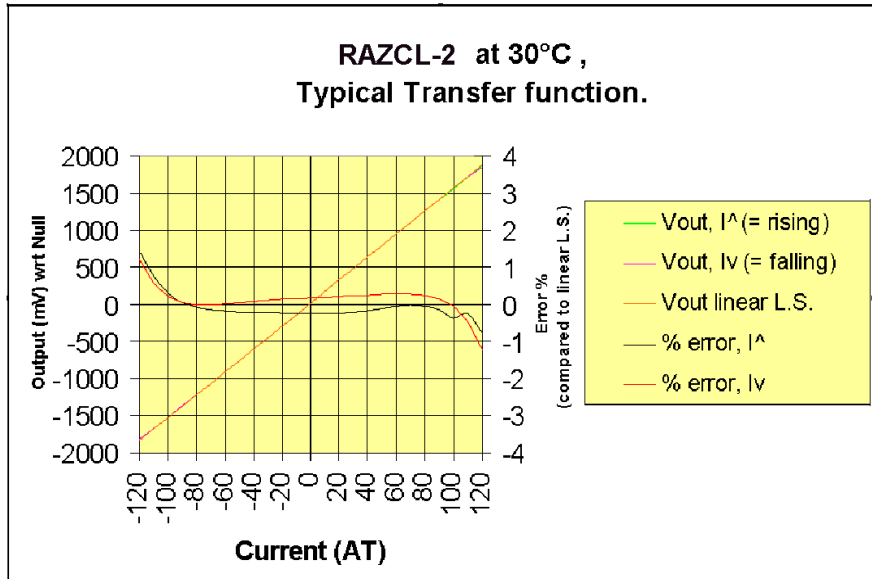
Characteristics ($T_A = 25^{\circ}\text{C}$ unless stated, $V_S = 5\text{V}$)

Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current (no load)	I_S		9	11.5	mA
Supply Voltage	V_S	4.5	5.0	5.5	V
Current range for $< \pm 1\%$ error (-25 to $+85^{\circ}\text{C}$)	I_m	± 100			A
Power-on settling time to 99%	t_{po}		50		μs
Null Output Voltage	V_o	2.488	2.5	2.512	V
Transfer Function (per turn, -25°C to $+85^{\circ}\text{C}$)	$\Delta V/I$	11.4	15	19.3	mV/A
Combined non-linearity and hysteresis error ($\pm 100\text{A}$, -25°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	0.08	0.12	0.16	%/K
Frequency response	$f_{-3\text{dB}}$		20		kHz
Output resistance	R_o		3		Ω

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