



## RAZCHC-15 CURRENT SENSOR

*Extending our popular range of RAZCH High-Speed, super compact current transducers results in new options for a pre-calibrated, 5% accuracy variant.*

*With a standard rise time of only 5 $\mu$ s from 0-20A (faster on request) and an Automotive Industry operating temperature range, these sensors really are a good performer.*

Our super compact, high speed model.



### Maximum Ratings ( $T_A = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Operating Temperature	$T_A$	-40 to +125	$^\circ\text{C}$
Storage Temperature	$T_{\text{stg}}$	-40 to +150	$^\circ\text{C}$
Supply Voltage	$V_s$	10.5	V
Measured Current	$I_m$	No Flux Limit	A

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## Characteristics ( $T_A = 25^\circ\text{C}$ ), 5.0V Supply

Parameter	Symbol	Lower Limit	Typical	Upper Limit	Unit
Supply Current	$I_s$		7	8.7	mA
Supply Voltage	$V_s$	4.5	5.0	10.5	V
Null Output ( $V_s = 5\text{V}$ )	$V_o$	2.425	2.5	2.575	V
Transfer Function (per turn) RAZCHC-15	$\Delta V/I$	14.25	15.0**	15.75	mV/A
Linearity ( $\pm 80\text{AT}$ )			1	2	%
Hysteresis (0 to 50AT)	Hys		0.2	0.4	%
Null drift due to temperature change	$TC_{\Delta V_o/V_o}$		+/- 0.08	+/- 0.8 *	mV/K
Gain Change due to temperature change	$TC_G$			-0.01 to +0.06	%/K
Risetime 0 to 20AT	$T_r$		5		$\mu\text{s}$
Frequency Response (-3dB)			120***		kHz

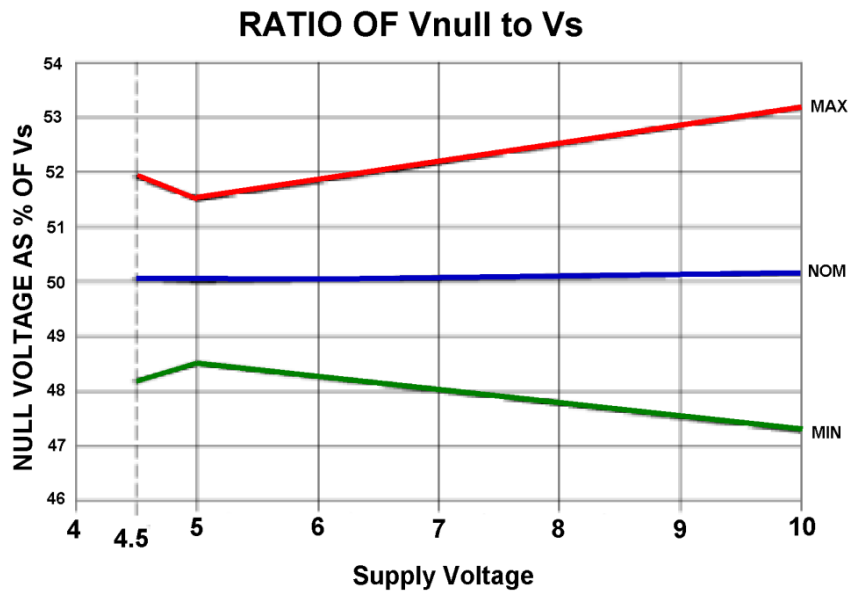
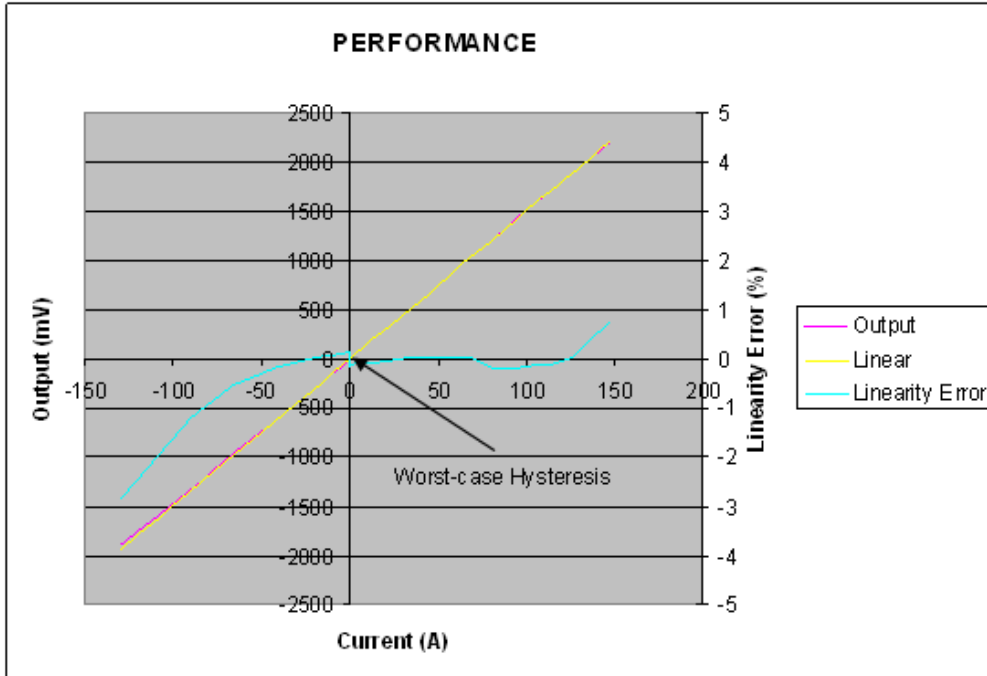
\* Tighter specification units available on request

\*\* Alternative gain/current ratings available on request

\*\*\* Higher speed devices available on request to 350kHz



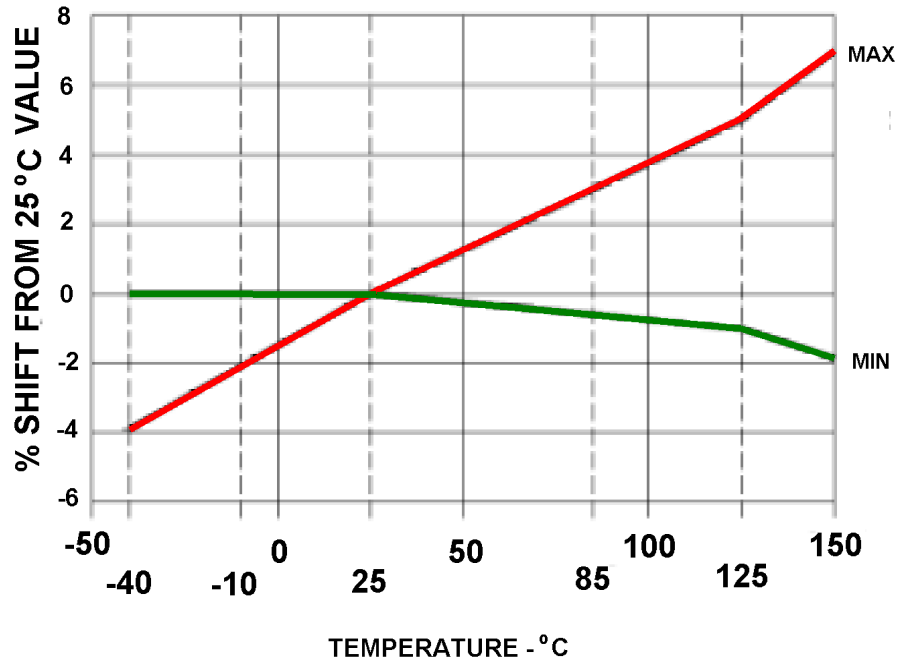
### Performance Characteristics



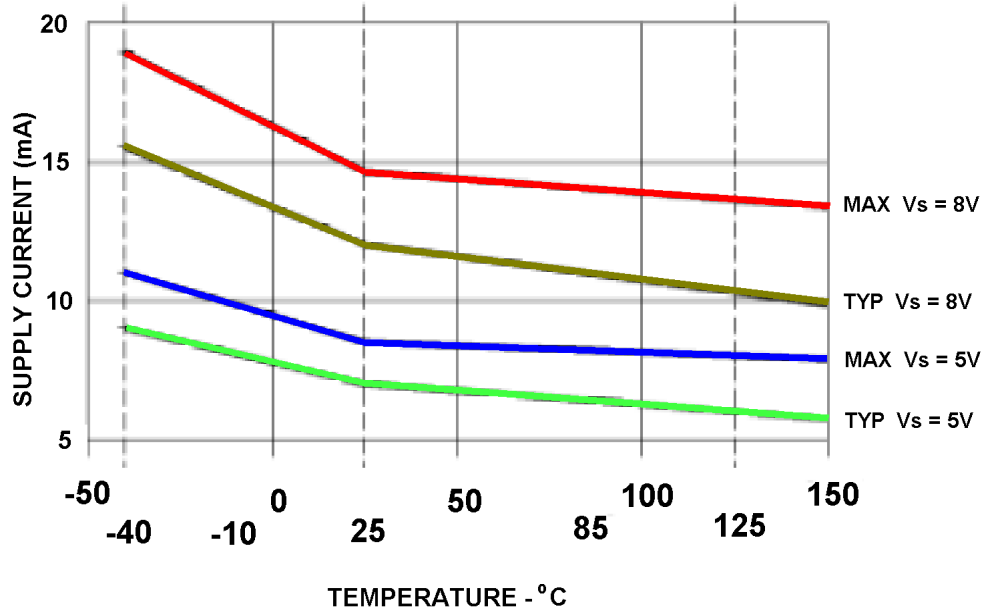
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**SENSITIVITY SHIFT vs TEMPERATURE**



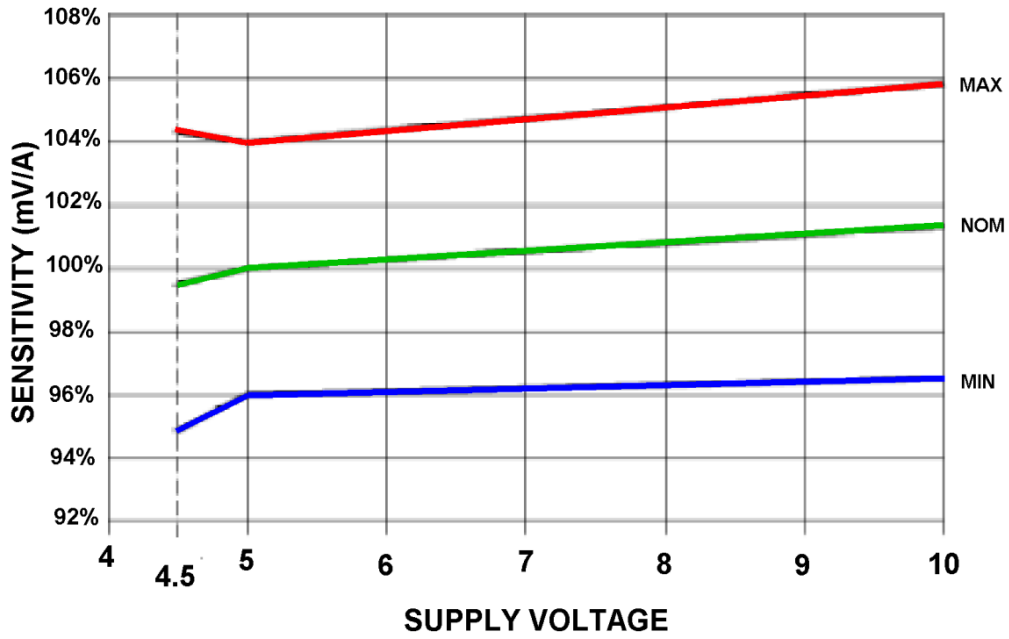
**SUPPLY CURRENT vs TEMPERATURE**



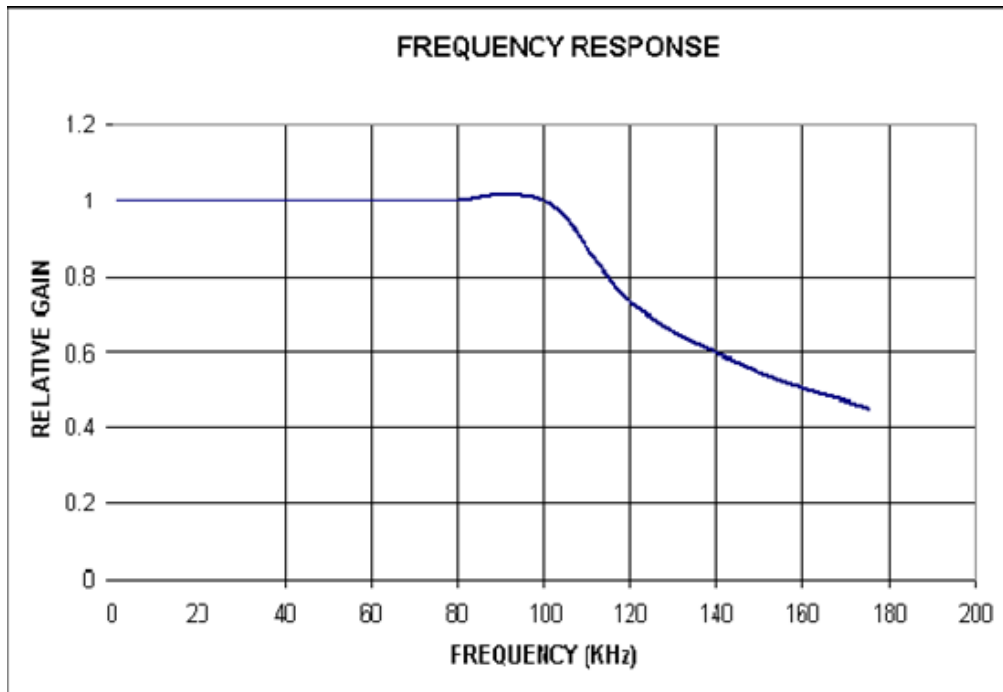
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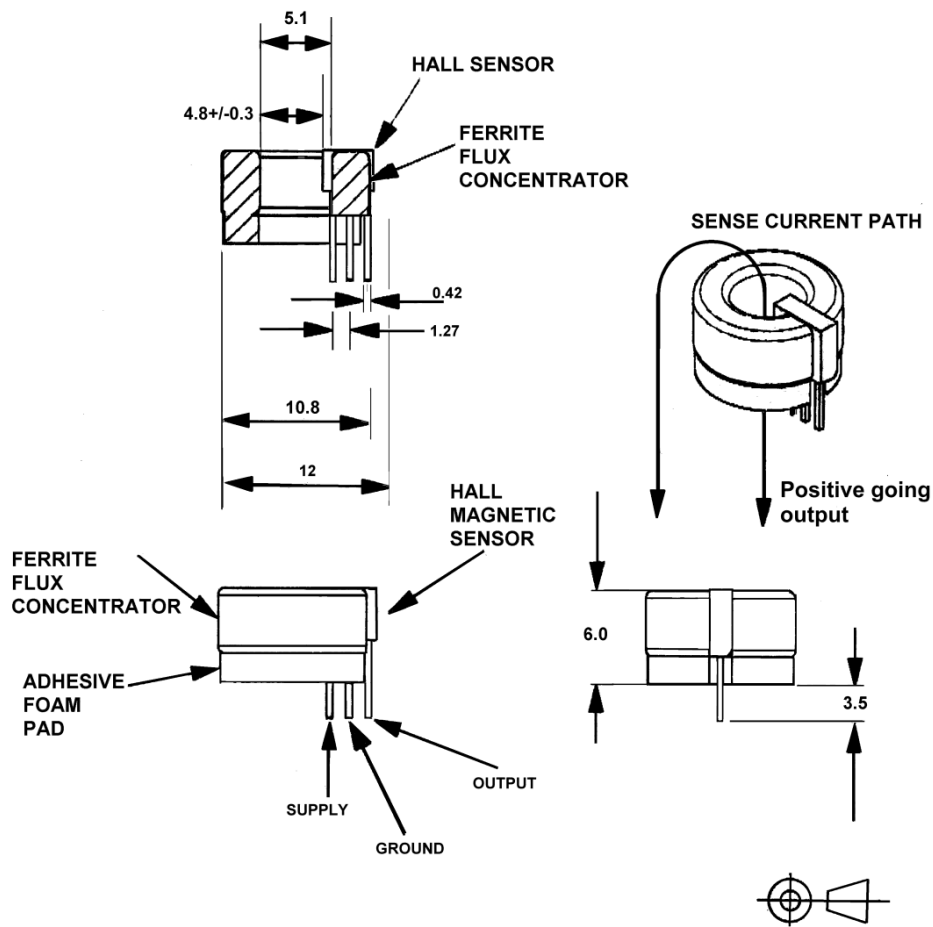
**SENSITIVITY vs SUPPLY VOLTAGE**



**FREQUENCY RESPONSE**



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