

Magnetic Sensor IC Selection Chart

Magnetic Type	(1) New	Package Type								Digital Magnetics			Linear Magnetics		Reverse Polarity Protect	Operating Temp (°C)	Supply Voltage (Vdc)	Typ I _s at 25 °C (mA)
		SOT-23		Flat TO-92-Style & U-Pack		SOT-89B		Other SMT		Typical at 25 °C		Max. Over Temperature	Typical at 25 °C					
		P/N	Standard Label (2)	P/N	Standard Label (2)	P/N	Standard Label (2)	P/N	Standard Label (2)	Typical Operate G [mT]	Typical Release G [mT]	Maximum Operate G [mT]	Typical Sensitivity mV/G [mV/mT]	Typical Range G [mT]				
Analog (Linear)				SS491B	91B			SS491B-SP	91B				50 [500]	±60 [±6]		-40 to 85	4.5 to 10.5	18
Analog (Linear)				SS494B	94B			SS494B-SP	94B				5 [50]	±420 [±42]		-40 to 150	4.5 to 10.5	7
Analog (Linear)				SS495A	95A			SS495A-SP	95A				3.125 [31.25]	±670 [±67]		-40 to 150	4.5 to 10.5	7
Analog (Linear)				SS495A1	95A			SS495A1-SP	95A				3.125 [31.25]	±670 [±67]		-40 to 150	4.5 to 10.5	7
Analog (Linear)				SS495A2	95A			SS495A2-SP	95A				3.125 [31.25]	±670 [±67]		-40 to 150	4.5 to 10.5	7
Analog (Linear)				SS495B	95B			SS495B-SP	95B				3.125 [31.25]	±670 [±67]		-40 to 150	4.5 to 10.5	7
Analog (Linear)				SS496A	96A			SS496A-SP	96A				2.5 [25]	±840 [±84]		-40 to 150	4.5 to 10.5	7
Analog (Linear)				SS496A1	96A			SS496A1-SP	96A				2.5 [25]	±840 [±84]		-40 to 150	4.5 to 10.5	7
Analog (Linear)				SS496B	96B			SS496B-SP	96B				2.5 [25]	±840 [±84]		-40 to 150	4.5 to 10.5	7
Analog (Linear)	✓	SS39ET		SS49E	49E	SS59ET	SS59E						1.4 [14]	±1000 [±100]		-40 to 100	2.7 to 6.5	6
Bipolar	✓	SS30AT	S30AT	SS40A	40A	SS50AT	SS50AT			30 [3]	-30 [-3]	55 [5.5]			✓	-40 to 125	3 to 24	3.5
Bipolar	✓	SS311PT	311PT	SS411P	411P					60 [6]	-80 [-8]	140 [14]				-40 to 150	2.7 to 7	5.5
Bipolar				SS41	S41	SS51T	SS51			40 [4]	-40 [-4]	250 [25]			✓	-40 to 150	4.5 to 24	5.8
Bipolar				SS411A	11A	SS511AT	S511A			20 [2]	-20 [-2]	70 [7]				-40 to 150	3.8 to 30	6.5
Bipolar				SS413A	13A	SS513AT	S513A			50 [5]	-50 [-5]	140 [14]				-40 to 150	3.8 to 30	6.5
Latching	✓	VF360NT, VF360ST	360NT, 360ST	VF460S	460S					30 [3]	-30 [-3]	55 [5.5]			✓	-40 to 150	3 to 24	4
Latching	✓	SS360NT, SS360ST, SS360PT	360NT, 360ST, 360PT	SS460S, SS460P	460S, 460P					30 [3]	-30 [-3]	55 [5.5]			✓	-40 to 150	3 to 24	4
Latching	✓	SS361RT	361RT	SS461R	461R					50 [5]	-50 [-5]	120 [12]			✓	-40 to 150	3 to 24	4
Latching	✓	SS361CT	361CT	SS461C	461C					50 [5]	-50 [-5]	95 [9.5]			✓	-40 to 125	4 to 24	4
Latching										100 [10]	-100 [-10]	375 [37.5]			✓	-40 to 150	4.5 to 24	5.8
Latching				SS461A	61A	SS561AT	S561A			50 [5]	-50 [-5]	110 [11]				-40 to 150	3.8 to 30	6.5
Latching				SS466A	66A	SS566AT	S566A			140 [14]	-140 [-14]	200 [20]				-40 to 150	3.8 to 30	6.5
Unipolar	✓	SS341RT	341RT	SS441R	441R					75 [7.5]	35 [3.5]	135 [13.5]			✓	-40 to 150	3 to 24	4
Unipolar	✓	SS343RT	343RT	SS443R	443R					135 [13.5]	85 [8.5]	205 [20.5]			✓	-40 to 150	3 to 24	4
Unipolar	✓	SS349RT	349RT	SS449R	449R					305 [30.5]	225 [22.5]	460 [46]			✓	-40 to 150	3 to 24	4
Unipolar	✓	SS345PT	345PT	SS445P	445P					180 [18]	105 [10.5]	280 [28]				-40 to 150	2.7 to 7	5.5
Unipolar				SS441A	41A	SS541AT	S541A			85 [8.5]	58 [5.8]	135 [13.5]				-40 to 150	3.8 to 30	6.5
Unipolar				SS443A	43A	SS543AT	S543A			145 [14.5]	115 [11.5]	215 [21.5]				-40 to 150	3.8 to 30	6.5
Unipolar				SS449A	49A	SS549AT	S549A			350 [35]	275 [27.5]	435 [43.5]				-40 to 150	3.8 to 30	6.5
Omnipolar Hall	✓	SS351AT	351AT	SS451A	451A	SS551AT	S551A			±85 [±8.5]	±40 [±4.0]	±135 [±13.5]			✓	-40 to 150	3 to 24	4.5
Low Power OH	✓	SL353HT	L353H							±60 [±6.0]	±45 [±4.5]	±110 [±10.0]				-40 to 85	2.2 to 5.5	330 µA
Low Power OH	✓	SL353LT	L353L							±60 [±6.0]	±45 [±4.5]	±110 [±10.0]				-40 to 85	2.2 to 5.5	1.8 µA
Omnipolar MR				2SS52M (3)	2SSM	SS552MT	S552M	2SS52M-S	2SSM	±15 [±1.5]	±11 [±1.1]	±25 [±2.5]				-40 to 150	3.8 to 30	6
Low Power OM	✓	SM351LT	M351L							±7 [±0.7]	±5 [±0.5]	±11 [±1.1]				-40 to 85	1.65 to 5.5	0.36 µA
Low Power OM	✓	SM353LT	M353L							±14 [±1.4]	±10 [±1.0]	±20 [±2.0]				-40 to 85	1.65 to 5.5	0.35 µA
Std Power OM	✓	SM351RT	M351R	SM451R	451R					±7 [±0.7]	±5 [±0.5]	±11 [±1.1]				-40 to 85	3 to 24	4
Std Power OM	✓	SM353RT	M353R	SM453R	453R					±14 [±1.4]	±10 [±1.0]	±20 [±2.0]				-40 to 85	3 to 24	4

Notes:

(1) Products identified as New are next gen products that should be first considered in any new application if they can meet the operating requirements.

(2) "Standard Labels" are the most likely labels stamped on the parts. Variations may occur depending on production lot or location, type of branding, etc.

(3) 2SS52M-Series of digital magnetoresistive sensor ICs are provided in the "U-Pack", a slightly larger version of the flat TO-92-style of through-hole package.