

Magnetic Sensor IC Selection Chart

		Package Type								Digital Magnetics				Linear Magnetics					
		SOT-23		Flat TO-92-Style & U-Pack		SOT-89B		Other SMT											
										Typical at 25 °C	Max. Over Temperature	Typical at 25 °C							
Magnetic Type	(1) New	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]	Reverse Polarity Protect	Operating Temp (°C)	Supply Voltage (Vdc)	Typ I _s at 25 °C (mA)	
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	✓	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				SS46	S46					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.