

Table 1. Latch & Switch Quick Selector

Parameters	Latch		Bipolar Switch			Unipolar Switch		Omnipolar Switch		
	US1881	US3881	US2881/2	US2884	US4881	US5781/2	US5881	MLX90248 New Generation	MLX90248-H	
Sensitivity ⁽¹⁾	High	High	Very High	Very High	Very High	Medium	Low	Very High	Very High	
B _{OP} max ⁽²⁾ [mT]	9.5	9	6	6	6	15	30	6	6	
B _{RP} min ⁽²⁾ [mT]	-9.5	-9	-6	-6	-6	3.5	9.5	0.5	0.5	
B _{HYST} typical ⁽²⁾ [mT]	10	10	5	4	5	5	4.3	1	1	
Temperature range ⁽³⁾	E, K, L	E, K, L	E, L	L	E, K, L	E, L / L	E, L	E	E	
V _{DD} range [V]	3.5~24	2.2~18	3.5~24	3.5~24	2.2~18	3.5~24	3.5~24	1.5~3.6	3.5~5.5	
I _{DD} average [mA]	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5µA @ 3V 3µA @ 1.8V	25µA @ 5V	
I _{OUT} continuous max [mA]	20	20	20	20	20	20	20	1	1	
V _{DSON} max [V] @ I _{OUT}	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	
Open Drain output	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Pole Active for the Package ⁽⁴⁾	TO92 flat (UA)	S	S	S	-	S	S / -	S	-	-
	TSOT (SE)	N	N	N	S	N ⁽⁴⁾	N / S	N	N & S	N & S
	UTQFN (LD)	-	-	-	-	-	-	-	N & S	N & S
RoHS (Pb-free) Compliant	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Green Compliant	✓	✓	✓	✓	✓	✓	✓	✓	✓	

Note 1 1 mT = 10 Gauss

Note 2 Temperature ranges: E (-40/85°C), K (-40/125°C), L (-40/150°C)

Note 3 Pole Active: magnetic pole applied to the marked side of the package which turns the Output ON (Low)

Note 4 Available in SOT23 (SO) package until depletion of stock, contact Melexis for further information

For more detailed information about the device performance, please refer to the latest datasheet revision available on our website or contact our sales force.

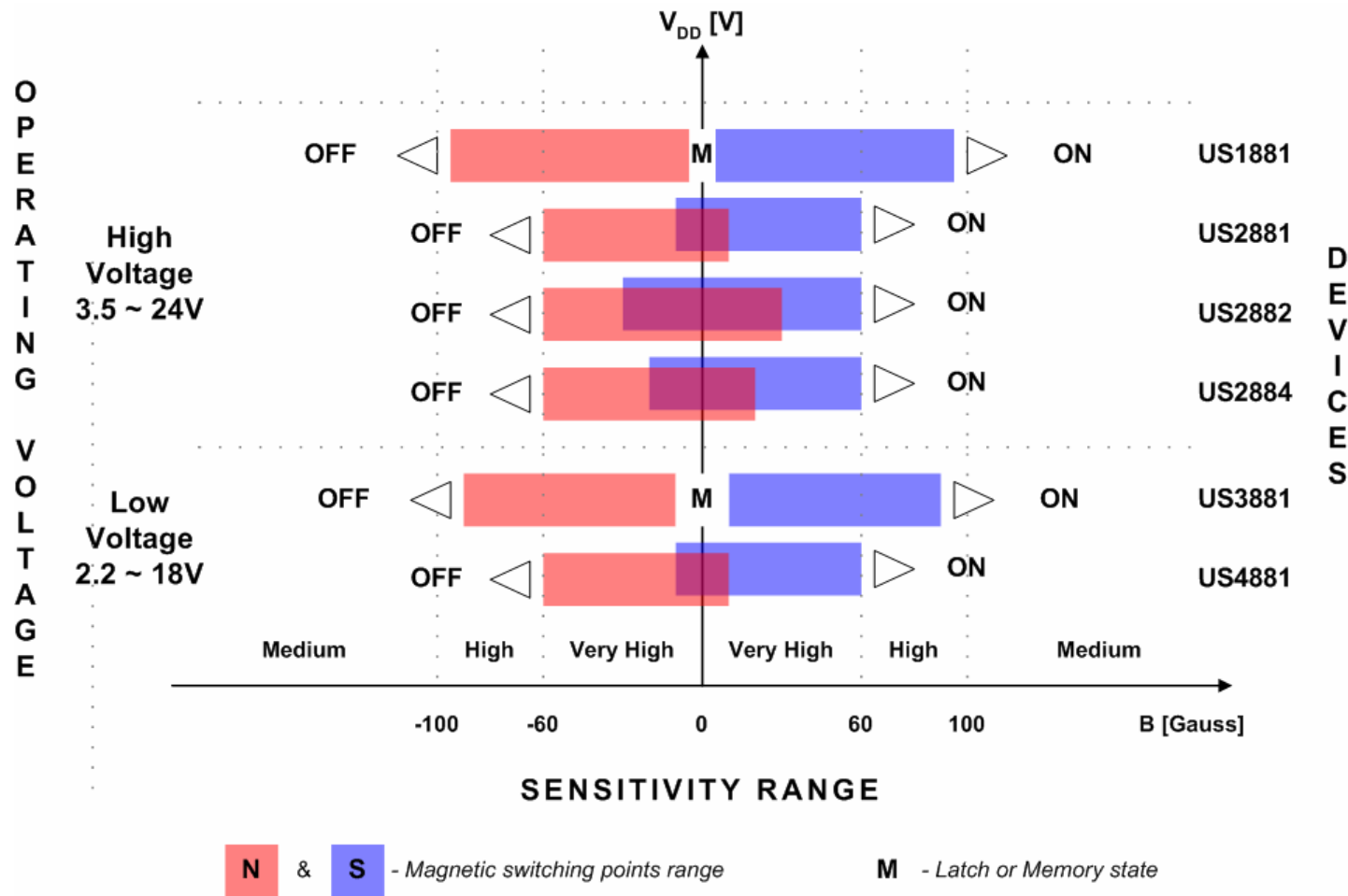


Figure 1. Latch & Bipolar Switch Graph Selector by Operating Voltage and Magnetic Sensitivity

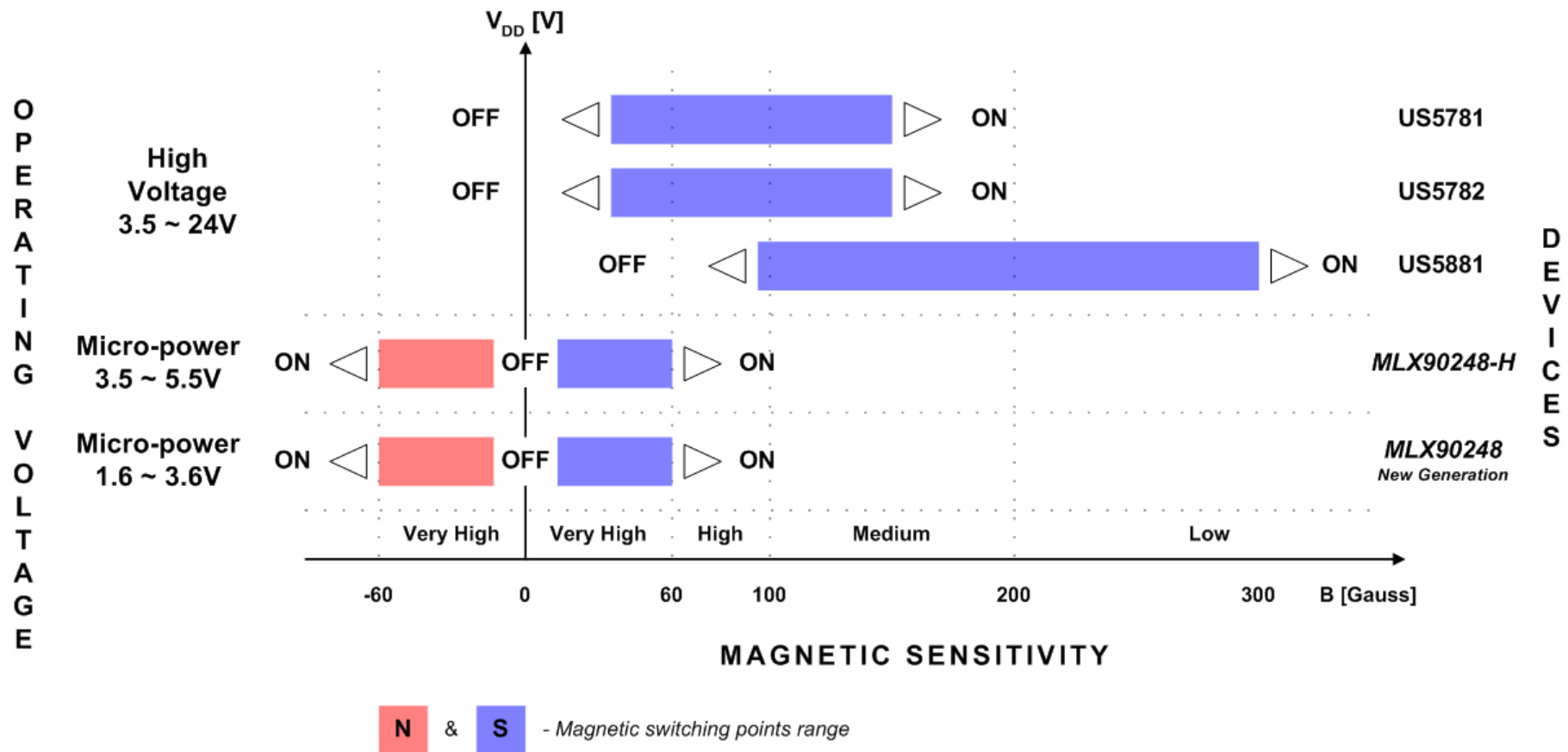
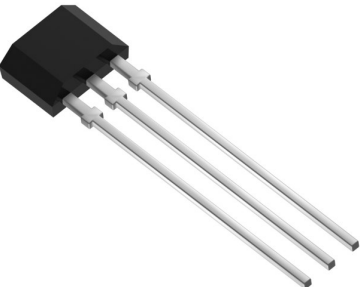
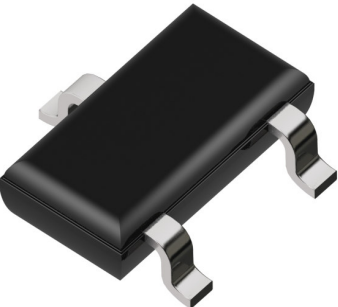


Figure 2. Unipolar & Omnipolar Switch Graph Selector by Operating Voltage and Magnetic Sensitivity

Table 2. Package pictures

Through-Hole Package	Surface Mount Package	Chip Size Package
 <p>TO92-3L flat (UA)</p>	 <p>TSOT-3L (SE)</p>	 <p>UTQFN-6L (LD)</p>

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