

Industry Standard Small Signal Switching Diodes / Schottky Diodes / Bipolar Transistors in SOT / SOD Packages

New Product Announcement

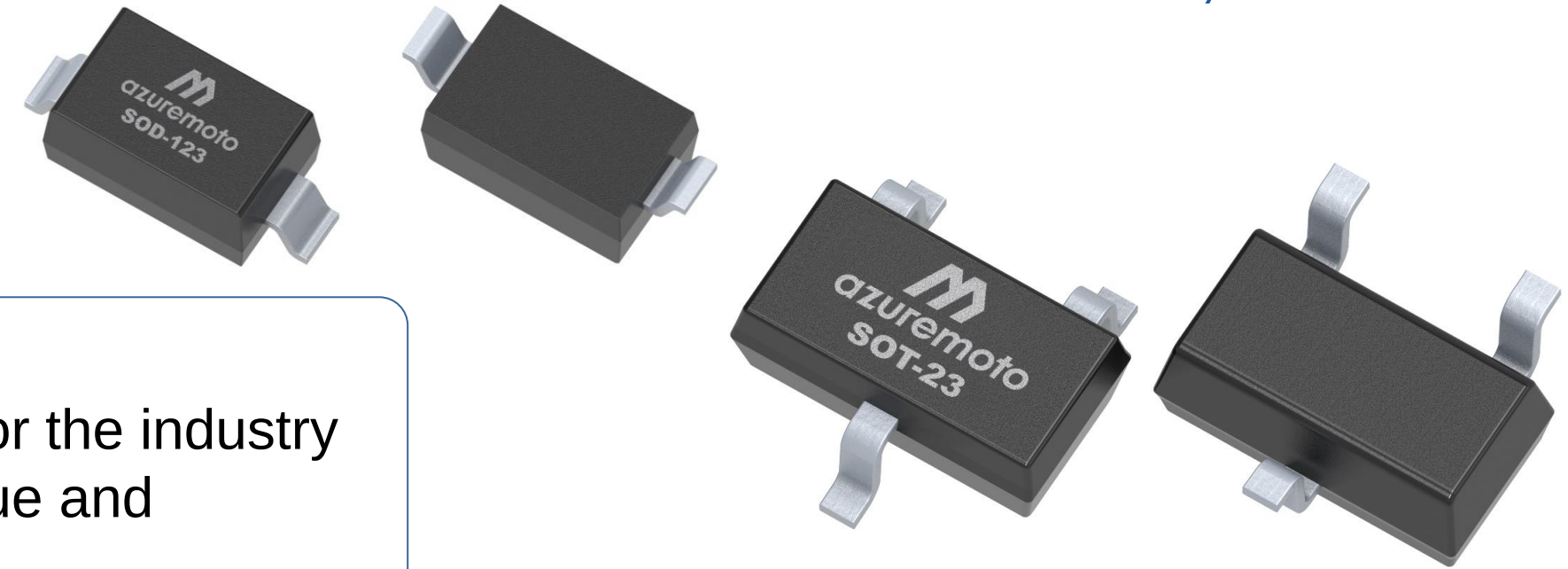
1N4148W, BA21W, BAV21WS,
BAV99, BAV70, B5819W, B5819WS,
MMBT3904, MMBT3906

Azuremoto announces the introduction of the industry standard small signal Switching Diodes, Schottky Diodes and Bipolar Transistors packaged in the surface mount “SOT23”, “SOD123” and “SOD323” package.

The industrial standard small signal portfolio is widely used in computer, communication and consumer electronics applications for general purpose.

Key Features

- **Direct Replacement**
Offers a direct replacement for the industry standard providing better value and improved availability.
- **Small Form Factor**
The small surface mount package by industry standard SOT23, SOD123, SOD323 enables compact schemes as well as improves the product reliability in the long run.
- **Moisture Sensitivity Level 1**
- **Lead-Free / RoHs-Compliant**
- **Halogen Free “Green” Device**



Applications

- Notebooks and Desktop Computers, Peripherals
- Handheld and Gaming Devices
- LCD / LED Displays
- Motor Drive: BLDC, PMSM, etc.
- Power Supplies
- Household Appliances

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Switching Diodes

Azuremoto Part Number	Power Dissipation (mW)	Reverse Working Maximum Voltage (V)	Maximum Average Forward Rectified Current (mA)	Forward Voltage (V) @T _A =25 °C	Reverse Current (µA) @T _A =25 °C	Reverse Recovery Time (ns)	Peak Forward Surge Current @t=8.3ms (A)	Package
1N4148W	400	75	150	1	1	4	2	SOD123
BAV21W	250	250	200	1	0.1	50	2.5	SOD123
BAV21WS	200	200	200	1	0.1	50	2.5	SOD323
BAV70	350	75	150	1	2.5	4	2	SOT23
BAV99	350	75	300	1	2.5	4	2	SOT23

Schottky Diodes

Azuremoto Part Number	Peak Repetitive Reverse Voltage (V)	Forward Continuous Current (mA)	Forward Voltage (V) @T _A =25°C	Reverse Current (µA) @T _A =25°C	Peak Forward Surge Current @t=8.3ms (A)	Package
B5819W	40	1000	0.6	1000	10	SOD123
B5819WS	40	1000	0.6	1000	10	SOD323

Bipolar Transistors

Azuremoto Part Number	Polarity	Collector-Emitter Voltage (V)	Collector Current (A)	Power Dissipation (W)	DC Current Gain (Min)	h _{FE} (@I _C) (A)	Collector-Emitter Saturation Voltage Max (mV)	V _{CE(SAT)} (@I _C /I _B) (A/mA)	Package
MMBT3904	NPN	40	0.20	0.30	100	0.01	200	0.01/1	SOT23
MMBT3906	PNP	40	0.20	0.30	100	0.01	250	0.01/1	SOT23

Cross Reference

Azuremoto Part Number	Package	Vishay	Nexperia	ON SEMI	ROHM	Diodes	Panjit	TSC	MCC	LRC
1N4148W	SOD123	1N4148W	BAS16GW	MMSD4148T1G		1N4148W-7-F	1N4148W	1N4148W-G	1N4148W-TP	L1N4148WT1G
BAV21W	SOD123	BAV21W	BAS21GW	MMSD3070		BAV21W-7-F	BAV21W	BAV21W-G	BAV21W-TP	LBAV21T1G
BAV21WS	SOD323	BAV21WS	BAS321	BAS21HT1G	BAS21VMFHTE-17	BAV21WS-7-F	BAV21WS	BAV21WS-G	BAV21WS-TP	LBAS21HT1G
B5819W	SOD123	SL04-E3-18	PMEG4010EGW	MBR140SFT1G	RBS1MM40ATR	1N5819HW-7-F	SS1040L		SM5819PL-TP	LMBR140T1G
B5819WS	SOD323		PMEG4010CEA		RBR1VWM40ATR	B140WS-7			B5819WS-TP	LMBR140HT1G
BAV99	SOT23	BAV99	BAV99	BAV99LT1G	BAV99	BAV99-7-F	BAV99	BAV99	BAV99-TP	LBAV99LT1G
BAV70	SOT23	BAV70	BAV70	BAV70LT1G	BAV70	BAV70-7-F	BAV70	BAV70	BAV70-TP	LBAV70LT1G
MMBT3904	SOT23		PMBT3904	MMBT3904LT1G		MMBT3904-7-F	MMBT3904	MMBT3904	MMBT3904-TP	LMBT3904LT1G
MMBT3906	SOT23		PMBT3906	MMBT3906LT1G		MMBT3906-7-F	MMBT3906	MMBT3906	MMBT3906-TP	LMBT3906LT1G