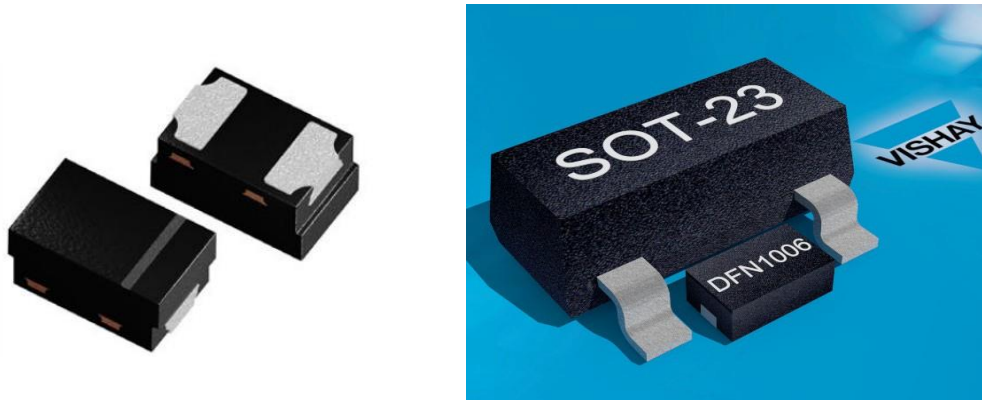




New Small Signal Schottky and Switching Diodes in Ultra Compact DFN1006-2A Package With Wettable Flanks Offer T_J Max. of 175 °C

Vishay has released new 40 V small signal Schottky and 100 V small signal switching diodes in the ultra compact, space-saving DFN1006-2A package with wettable flanks. The devices are rated for a maximum T_J of 175 °C, which enables higher power dissipation and higher reliability.



Device Specification Table

Ordering Part number	Package	Specification	P_{tot} on recommended footpads (mW)	P_{tot} $R_{thJL} = 100$ K/W (mW)	$I_{F(AV)}$ (A)	V_{RRM} (V)	I_{FSM} (A)	V_F at I_F and T_J			T_J max. (°C)	AEC-Q101
								V_F (V)	I_F (A)	T_A (°C)		
BAS16LTH-G3-08	DFN1006-2A	Switching diodes	350	1500	0.25	100	1.7 (at 1 ms)	0.86	0.01	25	175	No
BAS16LTH-HG3-08	DFN1006-2A	Switching diodes	350	1500	0.25	100	1.7 (at 1 ms)	0.86	0.01	25	175	Yes
BAS40LTH-G3-08	DFN1006-2A	Schottky diodes	350	1500	0.2	40	0.5 (at 10 ms)	0.56	0.01	25	175	No
BAS40LTH-HG3-08	DFN1006-2A	Schottky diodes	350	1500	0.2	40	0.5 (at 10 ms)	0.56	0.01	25	175	Yes



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Features

- Ultra small DFN1006-2A package (1 mm x 0.6 mm x 0.45 mm) with wettable (sidewall-plated) flanks
- Only 10 % PCB board space consumption compared with traditional SOD/T packages
- Better thermal / power performance than traditional SOD/T packages
- Soldering can be checked by standard visual inspection. No X-ray inspection necessary to meet automotive AOI requirements
- AEC-Q101 qualified and Automotive Grade
- UL 94 V-0 flammability rating
- Moisture sensitivity level (MSL) of 1 in accordance with J-STD-020
- RoHS-compliant, halogen-free, and Vishay Green

Applications

- T_J max. = 175 °C for high temperature, mission-critical applications
- Automotive
- Clamping
- Bias isolation
- Reverse polarity protection
- Switch mode power supplies

Samples

Available at Vishay Sample Service Center (VSSC)

Useful Links

- Datasheet BAS40LTH 175 °C www.vishay.com/doc?86328
- Datasheet BAS16LTH 175 °C www.vishay.com/doc?86327
- Application Note Soldering Recommendations for DFN Packages www.vishay.com/doc?86198

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