

Input Bridge	Competition	Diotec	Diotec	Diotec New!
Type	MB6S	MB6S	S250	S250K
Package height [mm]	2.7	1.6 40% less!	1.6 40% less!	1.6 40% less!
Plastic Case	Not Halogen-free	Halogen-free	Halogen-free	Halogen-free
I_{FAV} [A]	0.5	0.5	0.8 60% better!	1.0 100% better!
V_F [V] typ. @ 0.5A	0.9	0.9	same	0.78 14% less!
I_{FSM} [A]	35	35	44 26% better!	55 57% better!
ESD rating	None	None	None	Class 3B min. 8kV!
Advantages		Low Cost Halogen-Free	High I_{FSM} rating allows to reduce R_{inrush} and thus power losses	Highest I_{FSM} rating allows to reduce R_{inrush} and thus power losses. Robust against ESD!

Snubber	Competition	Diotec New!
Type	None	TGL200F10
Package		Melf
V_{BR} [V]		200
V_R [V]		1000
Advantages		Combines TVS and Blocking diode in one single package!

Output Rectifier	Competition	Diotec New!
Type	V15P45S	PPS1545
Footprint [mm]	6.7 x 4.8	6.5 x 4.0
Plastic Case	Halogen-free	Halogen-free
V_F [V] typ. @ 1A/125°C	0.23	0.2 13% less!
I_{FSM} [A]	210	280 33% more!
I_R [μ A] max	1500	500 66% less!
Advantages		Lower V_F and lower I_R for lower power losses at smaller footprint!

