

## Product Overview

### MBR1045MFS: 10A, 45 V Schottky Diode in SO-8FL

For complete documentation, see the data sheet.

10A, 45 V Schottky Diode in SO-8FL

#### Features

- Low Power Loss / High Efficiency
- New Package Provides Capability of Inspection and Probe After Board Mounting
- Guardring for Stress Protection
- Low Forward Voltage Drop
- 150°C Operating Junction Temperature
- Wettable Flacks Option Available
- NRVB Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These are Pb-Free and Halide-Free Devices

#### Applications

- Automotive engine control modules
- Automotive infotainment modules
- Automotive LED headlighting
- Compact notebook adapters
- High frequency SMPS

#### End Products

- Automotive

#### Part Electrical Specifications

Product	Compliance	Status	Configuration	$V_{RRM}$ Min (V)	$V_F$ Max (V)	$I_{RM}$ Max (μA)	$I_{O(rec)}$ Max (A)	$I_{FSM}$ Max (A)	$t_{rr}$ Max (ns)	$C_j$ Max (pF)	Package Type
MBR1045MFST1G	AEC Qualified	Active	Single	45	0.62	500	10	150	-	300	SO-8FL / DFN-5
	Pb-free										
	Halide free										
MBR1045MFST3G	AEC Qualified	Active	Single	45	0.62	500	10	150	-	300	SO-8FL / DFN-5
	Pb-free										
	Halide free										
NRVB1045MFST1G	AEC Qualified	Active	Single	45	0.62	500	10	150	-	300	SO-8FL / DFN-5
	PPAP Capable										
	Pb-free										
	Halide free										
NRVB1045MFST3G	AEC Qualified	Active	Single	45	0.62	500	10	150	-	300	SO-8FL / DFN-5
	PPAP Capable										
	Pb-free										
	Halide free										

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