

MBR1020VL - MBR10100VL SURFACE MOUNT SCHOTTKY BARRIER DIODE

VOLTAGE RANGE: 20-100V CURRENT: 1.0 A

Features

- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Classification 94V-O

Mechanical Data

- Case: SOD-123FL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.017 grams (approx.)





Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MBR1020VL	MBR1030VL	MBR1040VL	MBR1060VL	MBR10100VL	Unit
	Marking	V20	V30	V40	V60	V100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	60	100	V
Forward Continuous Current (Note 1)	ļF	1.0					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	25					А
Power Dissipation (Note 1)	Pd	450					mW
Operating and Storage Temperature Range	Tj, Tstg	-65 to +125					°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	MBR1020VL	MBR1030VL	MBR1040VL	MBR1060VL	MBR10100VL	Unit
Forward Voltage Drop @IF :	= 1.0A	Vғм	0.45	0.55	0.55	0.70	0.85	V
Peak Reverse Leakage Current @ VRRM IRM 500					μA			
Typical Junction Capacitance		Cj	50					pF

Note: 1. Valid provided that terminals are kept at ambient temperature.



