mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





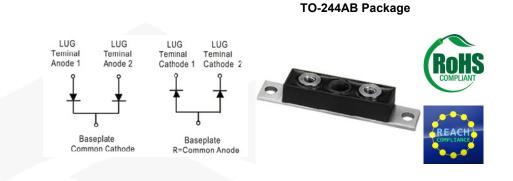
MBRF20045 thru MBRF200100R

Silicon Power Schottky Diode

V_{RRM} = 45 V - 100 V I_{F(AV)} = 200 A

Features

- High Surge Capability
- Types from 45 V to 100 V V_{RRM}
- Not ESD Sensitive



Maximum ratings, at T_i = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Symbol	Conditions	MBRF20045(R)	MBRF20060(R)	MBRF20080(R)	MBRF200100(R)	Unit
V _{RRM}		45	60	80	100	V
V _{RMS}		32	42	57	70	V
V _{DC}		45	60	80	100	V
Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
T _{stg}	\sim	-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
	V _{RRM} V _{RMS} V _{DC} T _j	V _{RRM} V _{RMS} V _{DC} T _j	V _{RRM} 45 V _{RMS} 32 V _{DC} 45 T _j -55 to 150	V_{RRM} 45 60 V_{RMS} 32 42 V_{DC} 45 60 T_j -55 to 150 -55 to 150	V_{RRM} 45 60 80 V_{RMS} 32 42 57 V_{DC} 45 60 80 T_j -55 to 150 -55 to 150 -55 to 150	V _{RRM} 45 60 80 100 V _{RMS} 32 42 57 70 V _{DC} 45 60 80 100 T _j -55 to 150 -55 to 150 -55 to 150 -55 to 150

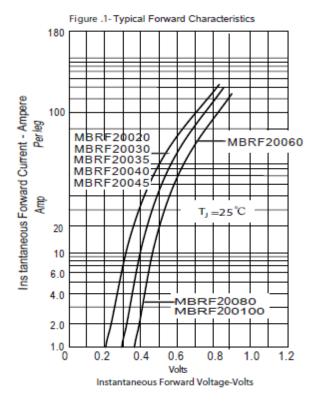
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	MBRF20045(R)	MBRF20060(R)	MBRF20080(R)	MBRF200100(R)	Unit
Average forward current (per pkg)	I _{F(AV)}	T _C = 125 °C	200	200	200	200	А
Peak forward surge current (per leg)	I _{FSM}	t _p = 8.3 ms, half sine	1500	1500	1500	1500	А
Maximum forward voltage (per leg)	V_{F}	I _{FM} = 100 A, T _j = 25 °C	0.70	0.75	0.84	0.84	V
Reverse current at rated DC blocking voltage (per leg)	I _R	T _j = 25 °C	1	1	1	1	mA
		T _j = 100 °C	10	10	10	10	
		T _j = 150 °C	30	30	30	30	
Thermal characteristics							
Thermal resistance, junction case (per leg)	R _{oJC}		0.45	0.45	0.45	0.45	°C/W





MBRF20045 thru MBRF200100R



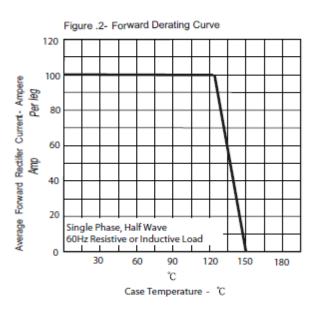
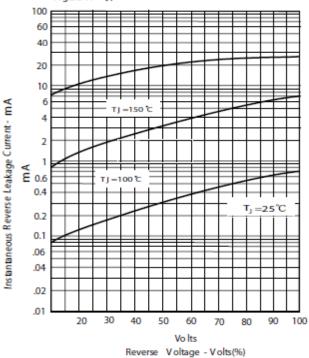
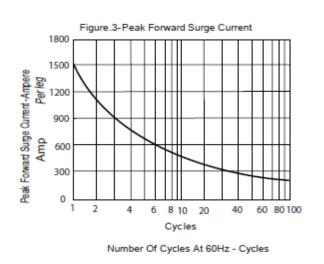


Figure .4- Typical Reverse Characteristics









MBRF20045 thru MBRF200100R

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

