imall

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

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MBRF50020 thru MBRF50040R

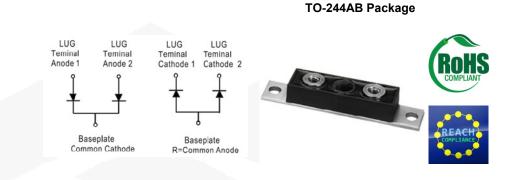
Silicon Power Schottky Diode

$V_{\rm RRM} = 20 \ V - 40 \ V$

 $I_{F(AV)} = 500 A$

Features

- High Surge Capability
- Types from 20 V to 40 V V_R
- Not ESD Sensitive



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

Parameter	Symbol	Conditions	MBRF50020(R)	MBRF50030(R)	MBRF50035(R)	MBRF50040(R)	Unit
Repetitive peak reverse voltage	V _{RRM}		20	30	35	40	V
RMS reverse voltage	V _{RMS}		14	21	25	28	V
DC blocking voltage	V _{DC}		20	30	35	40	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}	<u> </u>	-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

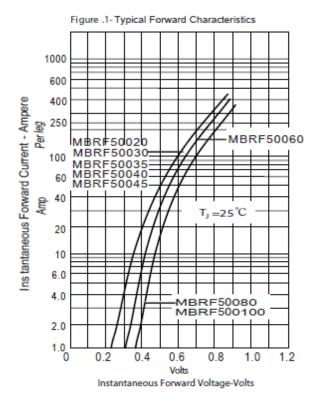
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

Parameter	Symbol	Conditions	MBRF50020(R)	MBRF50030(R)	MBRF50035(R)	MBRF50040(R)	Unit
Average forward current (per pkg)	I _{F(AV)}	T _C = 125 °C	500	500	500	500	А
Peak forward surge current (per leg)	I _{FSM}	t _p = 8.3 ms, half sine	3500	3500	3500	3500	А
Maximum forward voltage (per leg)	V_{F}	I _{FM} = 250 A, T _j = 25 °C	0.75	0.75	0.75	0.75	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	50	50	50	50	
Thermal characteristics							
Thermal resistance, junction case (per leg)	R _{øJC}		0.30	0.30	0.30	0.30	°C/W





MBRF50020 thru MBRF50040R



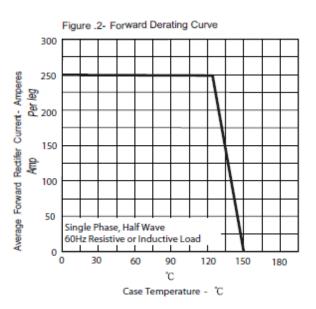


Figure .4 Typical Reverse Characteristics

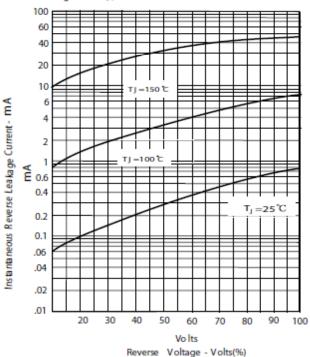


Figure.3-Peak Forward Surge Current 4200 3500 Peak Forward Surge Current-Ampere हि 2800 2100 du 1400 700 0 2 4 8 10 40 60 80 100 6 20 Cycles

Number Of Cycles At 60Hz - Cycles





MBRF50020 thru MBRF50040R

Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

