

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!



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MBRF30045 thru MBRF300100R

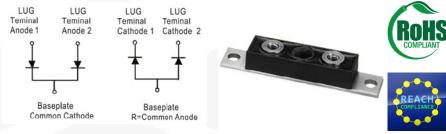
Silicon Power Schottky Diode

 $V_{RRM} = 45 \text{ V} - 100 \text{ V}$ $I_{F(AV)} = 300 \text{ A}$

Features

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

TO-244AB Package



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

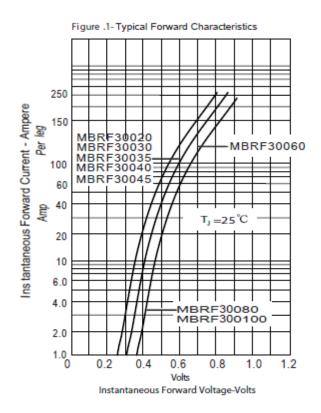
Parameter	Symbol	Conditions	MBRF30045(R)	MBRF30060(R)	MBRF30080(R)	MBRF300100(R)	Unit
Repetitive peak reverse voltage	V_{RRM}		45	60	80	100	V
RMS reverse voltage	V_{RMS}		32	42	57	70	V
DC blocking voltage	V_{DC}		45	60	80	100	V
Operating temperature	Tj		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T _{stg}		-55 to 150	-55 to 150	-55 to 150	-55 to 150	°C

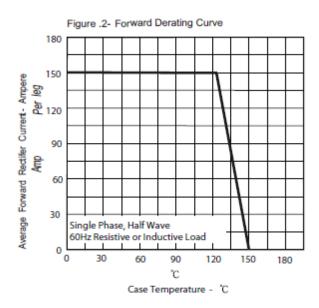
Electrical characteristics, at Tj = 25 °C, unless otherwise specified

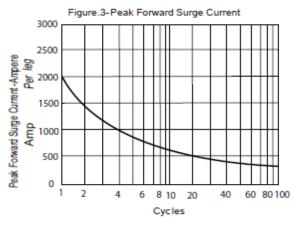
Parameter	Symbol	Conditions	MBRF30045(R)	MBRF30060(R)	MBRF30080(R)	MBRF300100(R)	Unit
Average forward current (per pkg)	$I_{F(AV)}$	T _C = 125 °C	300	300	300	300	Α
Peak forward surge current (per leg)	I _{FSM}	t_p = 8.3 ms, half sine	2000	2000	2000	2000	Α
Maximum forward voltage (per leg)	V _F	I _{FM} = 150 A, T _j = 25 °C	0.70	0.75	0.84	0.84	V
Reverse current at rated DC	C I _R	T _j = 25 °C	1	1	1	1	mA
		T _j = 100 °C	10	10	10	10	
blocking voltage (per leg)		T _j = 150 °C	30	30	30	30	
Thermal characteristics							
Thermal resistance, junction- case (per leg)	R _{eJC}		0.40	0.40	0.40	0.40	°C/W

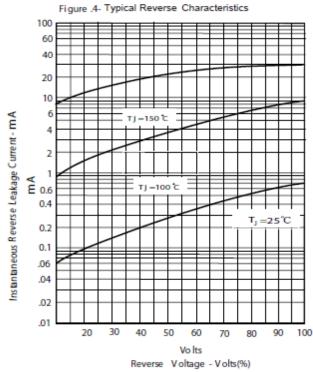


MBRF30045 thru MBRF300100R







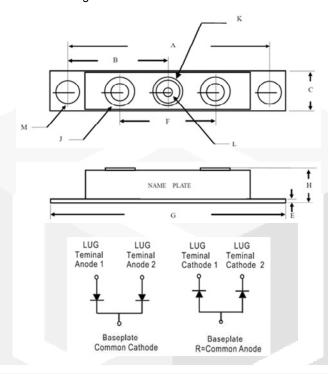


Number Of Cycles At 60Hz - Cycles



Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIM	Inc	hes	Millimeters				
	Min	Max	Min	Max			
A	3.144	NOM	79.85	NOM			
В	1.565	1.585	39.75	40.26			
С	0.700	0.800	17.78	20.32			
Е	0.119	0.14	3.02	3.50			
F	1.358	REF.	34.50	REF.			
G	3.55	3.65	90.17	92.71			
Н	0.604	0.65	15.35	16.51			
J	1/4-20 UNC FULL						
K	0.380	0.410	9.65	10.41			
L	0.185	0.195	4.70	4.95			
M	0.275	0.295	6.99	7.49			