

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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## MBRTA80020 thru MBRTA80040R

# Silicon Power Schottky Diode

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

 $I_{F(AV)} = 800 A$ 

#### **Features**

- · High Surge Capability
- $\bullet$  Types from 20 V to 40 V  $V_{\text{RRM}}$
- Isolation Type Package
- Electrically Isolated Base Plate
- Not ESD Sensitive

#### LUG LUG LUG LUG LUG Temina Temina Temina Teminal Temina Temina Anode 1 Cathode 1 Anode 2 Cathode 3 Catode 2 Anode 3 MBRTA800XXX MBRTA800XXX(R) Commom Center Common Center & N-Type & P-Type

#### **Heavy Three Tower Package**



#### Maximum ratings, at T<sub>i</sub> = 25 °C, unless otherwise specified ("R" devices have leads reversed)

Parameter	Symbol	Conditions	MBRTA80020(R)	MBRTA80030(R	) MBRTA80035(F	R) MBRTA80040(R	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	T <sub>j</sub>		-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

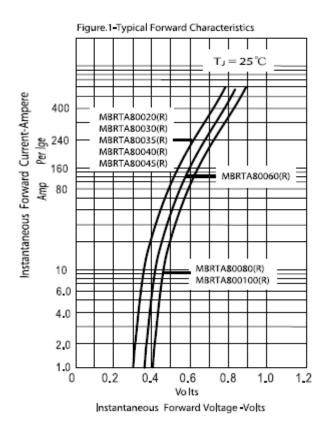
#### Electrical characteristics, at Tj = 25 °C, unless otherwise specified

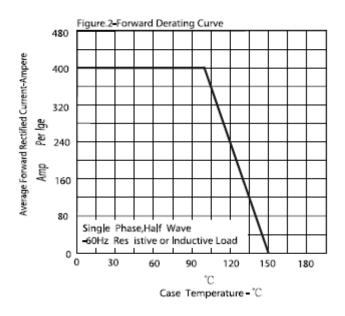
Parameter	Symbol	Conditions	MBRTA80020(R	) MBRTA80030(R)	MBRTA80035(R)	MBRTA80040	(R) Unit
Average forward current (per pkg)	$I_{F(AV)}$	T <sub>C</sub> = 100 °C	800	800	800	800	Α
Peak forward surge current (per leg)	I <sub>FSM</sub>	$t_p$ = 8.3 ms, half sine	6000	6000	6000	6000	Α
Maximum instantaneous forward voltage (per leg)	V <sub>F</sub>	I <sub>FM</sub> = 400 A, T <sub>j</sub> = 25 °C	0.72	0.72	0.72	0.72	V
Reverse current at rated DC blocking voltage (per	I <sub>R</sub>	T <sub>j</sub> = 25 °C T <sub>j</sub> = 100 °C	1 10	1 10	1 10	1 10	mA
leg)		T <sub>j</sub> = 150 °C	50	50	50	50	
Thermal characteristics Thermal resistance,	5						
junction - case (per leg)	$R_{\Theta JC}$		0.25	0.25	0.25	0.25	°C/W

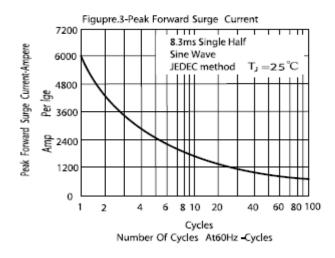


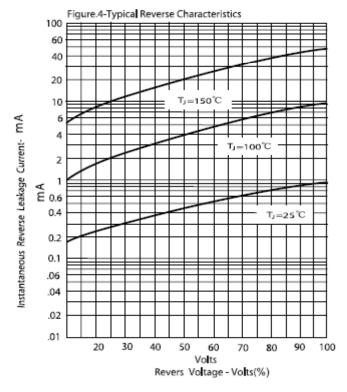


## MBRTA80020 thru MBRTA80040R





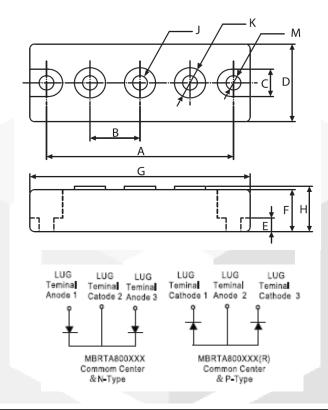




## MBRTA80020 thru MBRTA80040R

### Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



DIMENSIONS						
	INC	HES	MM			
	MIN	MAX	MIN	MAX		
A	3.150	NOM	80.01	NOM		
В	.872	.892	22.15	22.65		
С	.465	.479	11.82	12.18		
D	1.337	1.356	33.95	34.45		
E	.230	.234	5.84	6.16		
F	.725	REF	18.42	REF		
G	3.668	3.768	93.17	95.71		
Н		.791		20.10		
J	1/4 - 20 UNC FULL					
K	.509	.538	12.92	13.68		
M	.238	.258	6.05	6.55		