

Schottky Device Databook

This databook present technical data for Schottky Barrier Diode Die. Complete specifications are provided in the form of catalog and datasheet for our standard schottky products, which are designed to provide direct-replacement die for the most popular schottky rectifiers in use today.

With a complete staff of development engineers, we have the capability for full-custom schottky rectifier designs suited to your exact requirements.

This databook is intended for use as a guide for selecting the correct Schottky rectifier die for your application from our standard product line. If you do not find a die in this guide which meets your exact performance requirements, please contact us to explore other available solutions.

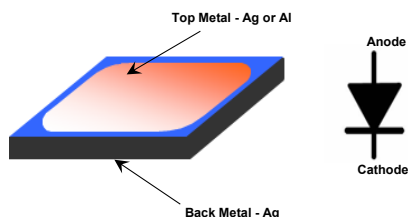
Schottky Highlights

Capability of wide current and voltage options: 0.1A ~ 600A, 10V ~ 250V.

Wide variety of schottky series to match virtually any potential requirement :Standard, Low Vf, Super Low Vf, Low Ir, Super Low Ir.

Optimized design for high ESD rating. (HBM > 8kv, MM > 2kv)

Optimized design of highly stable oxide passivated junction and guard ring for over-voltage protection.



Part Number Information Table

Part Number Code:

SB	20	45	-	120	D	-Al	-S
①	②	③		④	⑤	⑥	⑦

① - Schottky Series:
 SB = Standard Vf Schottky
 MBR = Low Ir Schottky
 HMBR = Super Low Ir Schottky
 SL = Low Vf Schottky
 HSL = Super Low Vf Schottky
 SE = High ESD Level Schottky^(IEC Model ESD+15kv)
 HMBRE = Super Low Ir Schottky with high ESD level
 PHMBR = Low Ir Schottky with improved Vf
 HMBRL = Balanced Ir and low Vf Schottky

Suffix key before schottky series code means customized

② - Io Value, 1 to 3 digits, unit is A
 ③ - Vr Value, 2 to 3 digits, unit is V
 ④ - Die size, 2 to 3 digits, unit is Mils
 ⑤ - Suffix key "D" for dual anode
 No suffix key if it is single anode
 ⑥ - Suffix key "-Al" = Al top metal
 No sniffer key = Ag top metal
 ⑦ - Suffix key "-S" = Stanniferous back metal
 No sniffer key = Ag back metal



The information in this datasheet does not form part of any contract, quotation guarantee, warranty or representation, it has been produced in good

Schottky Barrier Diode Catalog

500mA Schottky, 23mils, 40V, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value	Vf	Vr	Ir
01	SB0540-23-Al-S	Al	Ag(Sn)	23mil	40 V	0.5A	0.49 V	43 V	0.03 mA	/	/	125 °C	0.48 V	50 V	10.0 uA	

1A20V Schottky, 28-35mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value	Vf	Vr	Ir
01	SB120-28	Ag or Al	Ag	28mil	20 V	1 A	0.43 V	25 V	0.10 mA	8kv	25 A	125 °C	0.41 V	30 V	15.0 uA	
02	SB120-35	Ag or Al	Ag	35mil	20 V	1 A	0.43 V	25 V	0.10 mA	8kv	45 A	125 °C	0.40 V	30 V	10.0 uA	
03	SL120-35	Ag or Al	Ag	35mil	20 V	1 A	0.41 V	25 V	0.05 mA	8kv	45 A	125 °C	0.39 V	30 V	10.0 uA	

1A30V Schottky, 32-35mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value	Vf	Vr	Ir
01	SL130-32	Ag or Al	Ag	32mil	30 V	1 A	0.45 V	32 V	0.10 mA	8kv	25 A	125 °C	0.43 V	40 V	30.0 uA	
02	HSL130-35	Ag or Al	Ag	35mil	30 V	1 A	0.42 V	32 V	0.50 mA	8kv	40 A	125 °C	0.39 V	35 V	150.0 uA	

1A40V Schottky, 25-35mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value	Vf	Vr	Ir
01	SB140-25	Ag or Al	Ag	25mil	40 V	1 A	0.53 V	45 V	0.05 mA	4kv	25 A	125 °C	0.50 V	49 V	15.0 uA	
02	SB140-28	Ag or Al	Ag	28mil	40 V	1 A	0.50 V	45 V	0.10 mA	/	25 A	125 °C	0.48 V	51 V	25.0 uA	
03	SB140-28-Al-S	Al	Ag(Sn)	28mil	40 V	1 A	0.51 V	45 V	0.10 mA	/	25 A	125 °C	0.50V	51 V	25.0 uA	
04	SB140-30	Ag or Al	Ag	30mil	40 V	1 A	0.50 V	45 V	0.10 mA	8kv	30 A	125 °C	0.48 V	52 V	15.0 uA	
05	SB140-32	Ag or Al	Ag	32mil	40 V	1 A	0.50 V	45 V	0.10 mA	8kv	30 A	125 °C	0.48 V	52 V	20.0 uA	
06	SB140-35	Ag or Al	Ag	35mil	40 V	1 A	0.49 V	45 V	0.10 mA	8kv	30 A	125 °C	0.47 V	52 V	20.0 uA	
07	SL140-30	Ag or Al	Ag	30mil	40 V	1 A	0.48 V	45 V	0.10 mA	4kv	30 A	125 °C	0.46 V	52 V	20.0 uA	
08	SL140-32	Ag or Al	Ag	32mil	40 V	1 A	0.48 V	45 V	0.10 mA	4kv	30 A	125 °C	0.46 V	52 V	30.0 uA	
09	SL140-35	Ag or Al	Ag	35mil	40 V	1 A	0.45 V	45 V	0.10 mA	8kv	40 A	125 °C	0.43 V	52 V	50.0 uA	
10	MBR140-32	Ag or Al	Ag	32mil	40 V	1 A	0.50 V	45 V	0.10 mA	4kv	30 A	150 °C	0.48 V	52 V	20.0 uA	
11	MBR140-35	Ag or Al	Ag	35mil	40 V	1 A	0.50 V	45 V	0.10 mA	8kv	30 A	150 °C	0.48 V	52 V	20.0 uA	
12	SE140-28	Ag or Al	Ag	28mil	40 V	1 A	0.53 V	45 V	0.10 mA	15kv	25 A	125 °C	0.49 V	51 V	15.0 uA	

1A50V Schottky, 32mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value	Vf	Vr	Ir
01	SL150-32	Ag or Al	Ag	32mil	50 V	1 A	0.50 V	52 V	0.10 mA	8kv	40 A	125 °C	0.47 V	58 V	10.0 uA	

Note: All chip size in this catalog is design size, actual size after cutting is about 1.5mil less than design size.

1A60V Schottky, 28–35mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SB160-28	Ag or Al	Ag	28mil	60 V	1 A	0.65 V	65 V	0.10 mA	8kv	25 A	125 °C	0.61 V	72 V	30.0 uA	
02	SB160-30	Ag or Al	Ag	30mil	60 V	1 A	0.63 V	65 V	0.10 mA	8kv	30 A	125 °C	0.59 V	72 V	30.0 uA	
03	SB160-32	Ag or Al	Ag	32mil	60 V	1 A	0.63 V	65 V	0.10 mA	8kv	40 A	125 °C	0.57 V	72 V	30.0 uA	
04	SL160-35	Ag or Al	Ag	35mil	60 V	1 A	0.55 V	65 V	0.10 mA	8kv	45 A	125 °C	0.52 V	72 V	30.0 uA	
05	MBR160-32	Ag or Al	Ag	32mil	60 V	1 A	0.65 V	65 V	0.01 mA	8kv	40 A	150 °C	0.61 V	72 V	2.0 uA	
06	MBR160-35	Ag or Al	Ag	35mil	60 V	1 A	0.65 V	65 V	0.01 mA	8kv	45 A	150 °C	0.60 V	72 V	2.0 uA	

1A100V Schottky, 28–35mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	HMBR1100-28	Ag or Al	Ag	28mil	100 V	1 A	0.83 V	105 V	0.02 mA	/	25 A	175 °C	0.79 V	115 V	0.5 uA	
02	HMBR1100-30	Ag or Al	Ag	30mil	100 V	1 A	0.80 V	105 V	0.02 mA	/	30 A	175 °C	0.78 V	115 V	1.0 uA	
03	MBR1100-32	Ag or Al	Ag	32mil	100 V	1 A	0.80 V	105 V	0.02 mA	2kv	30 A	150 °C	0.78 V	115 V	2.0 uA	
04	MBR1100-35	Ag or Al	Ag	35mil	100 V	1 A	0.80 V	105 V	0.02 mA	2kv	30 A	150 °C	0.76 V	115 V	2.0 uA	
05	HMBR1100-32	Ag or Al	Ag	32mil	100 V	1 A	0.80 V	105 V	0.05 mA	2kv	30 A	175 °C	0.78 V	115 V	5.0 uA	

2A20V Schottky, 40–45mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SB220-40	Ag or Al	Ag	40mil	20 V	2 A	0.45 V	25 V	0.10 mA	8kv	50 A	125 °C	0.42 V	32 V	30.0 uA	
02	SB220-45	Ag or Al	Ag	45mil	20 V	2 A	0.43 V	25 V	0.10 mA	8kv	50 A	125 °C	0.40 V	30 V	40.0 uA	

2A40V Schottky, 35–50mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SB240-35	Ag or Al	Ag	35mil	40 V	2 A	0.55 V	45 V	0.10 mA	8kv	30 A	125 °C	0.52 V	52 V	20.0 uA	
02	SB240-37	Ag or Al	Ag	37mil	40 V	2 A	0.50 V	45 V	0.10 mA	4kv	40 A	125 °C	0.48 V	52 V	30.0 uA	
03	SB240-40	Ag or Al	Ag	40mil	40 V	2 A	0.50 V	45 V	0.10 mA	8kv	50 A	125 °C	0.48 V	55 V	30.0 uA	
04	SB240-45	Ag or Al	Ag	45mil	40 V	2 A	0.53 V	43 V	0.10 mA	8kv	50 A	125 °C	0.48 V	55 V	30.0 uA	
05	SL240-40	Ag or Al	Ag	45mil	40 V	2 A	0.49 V	45 V	0.10 mA	8kv	50 A	125 °C	0.45 V	55 V	50.0 uA	
06	SL240-45	Ag or Al	Ag	45mil	40 V	2 A	0.48 V	45 V	0.10 mA	8kv	50 A	125 °C	0.46 V	52 V	40.0 uA	
07	HSL240-45	Ag or Al	Ag	45mil	40 V	2 A	0.45 V	42 V	0.10 mA	4kv	50 A	125 °C	0.43 V	52 V	40.0 uA	
08	MBR240-35	Ag or Al	Ag	35mil	40 V	2 A	0.60 V	45 V	0.10 mA	2kv	50 A	150 °C	0.56 V	50 V	10.0 uA	
09	MBR240-40	Ag or Al	Ag	40mil	40 V	2 A	0.55 V	45 V	0.05 mA	2kv	50 A	150 °C	0.52 V	55 V	5.0 uA	
10	MBR240-45	Ag or Al	Ag	45mil	40 V	2 A	0.52 V	45 V	0.05 mA	8kv	50 A	150 °C	0.49 V	55 V	5.0 uA	

2A60V Schottky, 37–50mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SB260-37	Ag or Al	Ag	37mil	60 V	2 A	0.65 V	65 V	0.10 mA	8kv	50 A	125 °C	0.62 V	72 V	25.0 uA	
02	SB260-40	Ag or Al	Ag	40mil	60 V	2 A	0.63 V	65 V	0.10 mA	8kv	50 A	125 °C	0.61 V	75 V	20.0 uA	
03	MBR260-40	Ag or Al	Ag	40mil	60 V	2 A	0.63 V	65 V	0.10 mA	8kv	50 A	150 °C	0.59 V	75 V	10.0 uA	
04	MBR260-45	Ag or Al	Ag	45mil	60 V	2 A	0.65 V	65 V	0.10 mA	8kv	50 A	150 °C	0.60 V	75 V	10.0 uA	

2A100V Schottky, 40–50mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	HMBR2100-40	Ag or Al	Ag	40mil	100 V	2 A	0.80 V	105 V	0.02 mA	2kv	50 A	175 °C	0.77 V	120 V	0.5 uA	
02	MBR2100-45	Ag or Al	Ag	45mil	100 V	2 A	0.805 V	105 V	0.02 mA	8kv	50 A	150 °C	0.78 V	115 V	3.0 uA	
03	MBR2100-50	Ag or Al	Ag	50mil	100 V	2 A	0.80 V	105 V	0.02 mA	8kv	50 A	150 °C	0.76 V	115 V	3.0 uA	
04	HMBR2100-45	Ag or Al	Ag	45mil	100 V	2 A	0.80 V	105 V	0.01 mA	4kv	50 A	175 °C	0.78 V	115 V	1.0 uA	

3A20V Schottky, 50–60mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SB320-50	Ag or Al	Ag	50mil	20 V	3 A	0.45 V	25 V	0.20 mA	8kv	80 A	125 °C	0.41 V	25 V	50.0 uA	

3A30V Schottky, 60mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SL330-60	Ag or Al	Ag	60mil	30 V	3 A	0.42 V	33 V	0.50 mA	8kv	100 A	125 °C	0.39 V	38 V	200.0 uA	

3A40V Schottky, 50–60mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SB340-50	Ag or Al	Ag	50mil	40 V	3 A	0.50 V	45 V	0.20 mA	8kv	80 A	125 °C	0.48 V	52 V	50.0 uA	
02	SB340-55	Ag or Al	Ag	55mil	40 V	3 A	0.50 V	45 V	0.20 mA	8kv	80 A	125 °C	0.48 V	51 V	50.0 uA	
03	SB340-60	Ag or Al	Ag	60mil	40 V	3 A	0.50 V	45 V	0.20 mA	8kv	80 A	125 °C	0.48 V	55 V	80.0 uA	
04	SL340-55	Ag or Al	Ag	55mil	40 V	3 A	0.48 V	45 V	0.50 mA	6kv	80 A	125 °C	0.44 V	50 V	80.0 uA	
05	HSL340-60	Ag or Al	Ag	60mil	40 V	3 A	0.43 V	43 V	0.50 mA	4kv	100 A	125 °C	0.40 V	51 V	100.0 uA	
06	MBR340-50	Ag or Al	Ag	50mil	40 V	3 A	0.53 V	45 V	0.05 mA	8kv	80 A	150 °C	0.51 V	55 V	15.0 uA	
07	MBR340-55	Ag or Al	Ag	55mil	40 V	3 A	0.53 V	45 V	0.05 mA	8kv	80 A	150 °C	0.48 V	55 V	15.0 uA	
08	MBR340-60	Ag or Al	Ag	60mil	40 V	3 A	0.52 V	46 V	0.05 mA	8kv	100 A	150 °C	0.46 V	52 V	10.0 uA	

3A60V Schottky, 50–60mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SB360-50	Ag or Al	Ag	50mil	60 V	3 A	0.63 V	65 V	0.20 mA	8kv	80 A	125 °C	0.60 V	72 V	50.0 uA	
02	MBR360-50	Ag or Al	Ag	50mil	60 V	3 A	0.65 V	65 V	0.05 mA	8kv	80 A	150 °C	0.62 V	72 V	10.0 uA	
03	MBR360-55	Ag or Al	Ag	55mil	60 V	3 A	0.65 V	65 V	0.05 mA	8kv	80 A	150 °C	0.62 V	72 V	10.0 uA	
04	MBR360-60	Ag or Al	Ag	60mil	60 V	3 A	0.65 V	65 V	0.05 mA	8kv	80 A	150 °C	0.59 V	72 V	15.0 uA	

3A100V Schottky, 50–60mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	HMBR3100-50	Ag or Al	Ag	50mil	100 V	3 A	0.80 V	105 V	0.02 mA	4kv	80 A	175 °C	0.76 V	115 V	0.5 uA	
02	MBR3100-55	Ag or Al	Ag	55mil	100 V	3 A	0.80 V	105 V	0.05 mA	8kv	100 A	150 °C	0.78 V	115 V	5.0 uA	
03	MBR3100-60	Ag or Al	Ag	60mil	100 V	3 A	0.80 V	105 V	0.05 mA	8kv	100 A	150 °C	0.75 V	115 V	5.0 uA	
04	HMBR3100-55	Ag or Al	Ag	55mil	100 V	3 A	0.80 V	105 V	0.05 mA	4kv	100 A	175 °C	0.78 V	115 V	5.0 uA	
05	HMBR3100-60	Ag or Al	Ag	60mil	100 V	3 A	0.80 V	105 V	0.01 mA	4kv	100 A	175 °C	0.76 V	115 V	1.0 uA	

5A40V Schottky, 60–70mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	SL540-70	Ag or Al	Ag	70mil	40 V	5 A	0.45 V	43 V	0.50 mA	4kv	150 A	125 °C	0.44 V	51 V	130.0 uA	
02	MBR540-60	Ag or Al	Ag	60mil	40 V	5 A	0.55 V	45 V	0.10 mA	8kv	100 A	150 °C	0.51 V	55 V	25.0 uA	
03	MBR540-66	Ag or Al	Ag	66mil	40 V	5 A	0.55 V	45 V	0.10 mA	8kv	100 A	150 °C	0.48 V	55 V	25.0 uA	
04	MBR540-70	Ag or Al	Ag	70mil	40 V	5 A	0.55 V	45 V	0.10 mA	8kv	150 A	150 °C	0.49 V	55 V	40.0 uA	

5A60V Schottky, 60–70mils, Single Anode														Typical Value		
No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Vf	Vr	Ir	
01	MBR560-60	Ag or Al	Ag	60mil	60 V	5 A	0.65 V	65 V	0.05 mA	8kv	100 A	150 °C	0.62 V	75 V	15.0 uA	
02	MBR560-66	Ag or Al	Ag	66mil	60 V	5 A	0.65 V	65 V	0.05 mA	8kv	120 A	150 °C	0.60 V	75 V	10.0 uA	
03	MBR560-70	Ag or Al	Ag	70mil	60 V	5 A	0.65 V	65 V	0.05 mA	8kv	150 A	150 °C	0.59 V	75 V	15.0 uA	
04	MBR560-70	Ag or Al	Ag	70mil	60 V	5 A	0.55 V	65 V	0.10 mA	4kv						

05	HMBR560-70	Ag or Al	Ag	70mil	60 V	5 A	0.72 V	65 V	0.02 mA	8kv	150 A	175 °C	0.67 V	72 V	1.0 uA
06	HSL560-70	Ag or Al	Ag	70mil	60 V	5 A	0.50 V	65 V	0.20 mA	4kv	150 A	125 °C	0.46 V	72 V	100.0 uA

5A100V Schottky, 66-70mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	MBR5100-70	Ag or Al	Ag	70mil	100 V	5 A	0.80 V	105 V	0.05 mA	8kv	150 A	150 °C	0.78 V	115 V	8.0 uA
02	HMBR5100-66	Ag or Al	Ag	66mil	100 V	5 A	0.83 V	105 V	0.05 mA	4kv	150 A	175 °C	0.79 V	115 V	1.0 uA
03	HMBR5100-70	Ag or Al	Ag	70mil	100 V	5 A	0.80 V	105 V	0.05 mA	4kv	150 A	175 °C	0.78 V	115 V	1.0 uA

1-5A High Voltage Schottky, 150V-200V, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	HMBR1150-35	Ag or Al	Ag	35mil	150 V	1 A	0.85 V	150 V	0.01 mA	1kv	30 A	175 °C	0.80 V	170 V	1.0 uA
02	HMBR2150-50	Ag or Al	Ag	50mil	150 V	2 A	0.85 V	160 V	0.02 mA	2kv	50 A	175 °C	0.79 V	180 V	1.0 uA
03	HMBR3150-60	Ag or Al	Ag	60mil	150 V	3 A	0.85 V	160 V	0.02 mA	2kv	100 A	175 °C	0.79 V	180 V	1.0 uA
04	HMBR5150-68	Ag or Al	Ag	68mil	150 V	5 A	0.85 V	160 V	0.02 mA	4kv	150 A	175 °C	0.79 V	180 V	1.0 uA
05	HMBR1200-35	Ag or Al	Ag	35mil	200 V	1 A	0.85 V	200 V	0.01 mA	1kv	30 A	175 °C	0.83 V	215 V	1.0 uA
06	HMBR2200-45	Ag or Al	Ag	45mil	200 V	2 A	0.88 V	205 V	0.02 mA	1kv	50 A	175 °C	0.85 V	220 V	1.0 uA
07	HMBR2200-50	Ag or Al	Ag	50mil	200 V	2 A	0.88 V	205 V	0.02 mA	1kv	50 A	175 °C	0.82 V	220 V	1.0 uA
08	HMBR3200-55	Ag or Al	Ag	55mil	200 V	3 A	0.88 V	205 V	0.02 mA	2kv	100 A	175 °C	0.84 V	220 V	1.0 uA
09	HMBR3200-60	Ag or Al	Ag	60mil	200 V	3 A	0.85 V	210 V	0.02 mA	2kv	100 A	175 °C	0.82 V	230 V	1.0 uA
10	HMBR5200-68	Ag or Al	Ag	68mil	200 V	5 A	0.88 V	205 V	0.01 mA	4kv	150 A	175 °C	0.85 V	220 V	5.0 uA

8A Schottky, 45-100V, 78 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	PMBR845-78	Ag or Al	Ag	78mil	45 V	8 A	0.55 V	45 V	0.10 mA	4kv	175 A	150 °C	0.52 V	52 V	30.0 uA
02	HMBR8100-78	Ag or Al	Ag	78mil	100 V	8 A	0.83 V	105 V	0.02 mA	4kv	175 A	175 °C	0.80 V	115 V	10.0 uA

10A Schottky, 45-100V, 88 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	PMBR1045-88	Ag or Al	Ag	88mil	45 V	10 A	0.55 V	45 V	0.10 mA	4kv	175 A	150 °C	0.50 V	52 V	35.0 uA
02	MBR1045-88	Ag or Al	Ag	88mil	45 V	10 A	0.55 V	45 V	0.30 mA	4kv	175 A	150 °C	0.51 V	55 V	60.0 uA
03	HMBR10100-88	Ag or Al	Ag	88mil	100 V	10 A	0.83 V	105 V	0.10 mA	8kv	200 A	175 °C	0.81 V	120 V	10.0 uA

10A Schottky, 150-200V, 90 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	HMBR10150-90	Ag or Al	Ag	90mil	150 V	10 A	0.85 V	150 V	0.02 mA	4kv	175 A	150 °C	0.82 V	170 V	1.0 uA
02	HMBR10200-90	Ag or Al	Ag	90mil	200 V	10 A	0.88 V	205 V	0.01 mA	4kv	175 A	175 °C	0.84 V	220 V	1.0 uA

10A Schottky, 45-200V, 97 mils, Dual Anode (5A x 2)

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value(Per Diode)		
													Vf	Vr	Ir
01	HMBR10200-97D	Ag or Al	Ag	97mil	200 V	5A x 2	0.90 V	205 V	0.05 mA	2kv	250 A	175 °C	0.84 V	220 V	1.0 uA

12A Schottky, 45-100V, 98 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value(Per Diode)		
													Vf	Vr	Ir
01	PMBR1245-98	Ag or Al	Ag	98mil	45 V	12 A	0.55 V	45 V	0.15 mA	8kv	175 A	150 °C	0.49 V	52 V	100.0 uA
02	PMBRL1245-98	Ag or Al	Ag	98mil	45 V	12 A	0.53 V	45 V	0.12 mA	8kv	175 A	150 °C	0.48 V	56 V	60.0 uA
03	PMBR1250-98	Ag or Al	Ag	98mil	50 V	12 A	0.53 V	50 V	0.08 mA	8kv	175 A	150 °C	0.50 V	56 V	60.0 uA
04	SMBR1250-98	Ag or Al	Ag	98mil	50 V	12 A	0.60 V	50 V	0.10 mA	8kv	250 A	175 °C	0.56 V	60 V	20.0 uA

20A Schottky, 45-200V, 102 mils, Dual Anode (10A x 2)

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value(Per Diode)		
													Vf	Vr	Ir
01	SMBR2045-102D	Ag or Al	Ag	102mil	45 V	10A x 2	0.55 V	45 V	0.10 mA	8kv	150 A	150 °C	0.53 V	55 V	50.0 uA
02	HMBR20100-102D	Ag or Al	Ag	102mil	100 V	10A x 2	0.85 V	105 V	0.05 mA	/	250 A	175 °C	0.81 V	120 V	5.0 uA
03	HMBR20200-102D	Ag or Al	Ag	102mil	200 V	10A x 2	0.95 V	205 V	0.05 mA	/	250 A	175 °C	0.90 V	220 V	2.0 uA

15A Schottky, 30-100V, 105 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	PMBR1545-105	Ag or Al	Ag	105mil	45 V	15 A	0.55 V	45 V	0.20 mA	8kv	300 A	150 °C	0.52 V	52 V	50.0 uA
02	PMBR1550-105	Ag or Al	Ag	105mil	50 V	15 A	0.55 V	50 V	0.20 mA	8kv	300 A	150 °C	0.52 V	57 V	50.0 uA
03	SMBR1550-105	Ag or Al	Ag	105mil	50 V	15 A	0.63 V	50 V	0.10 mA	8kv	300 A	150 °C	0.57 V	60 V	20.0 uA
04	MBR1560-105	Ag or Al	Ag	105mil	60 V	15 A	0.63 V	65 V	0.20 mA	15kv	250 A	150 °C	0.60 V	75 V	40.0 uA
05	MBR1565-105	Ag or Al	Ag	105mil	65 V	15 A	0.63 V	65 V	0.20 mA	15kv	250 A	150 °C	0.60 V	75 V	40.0 uA
06	HMBR15100-105	Ag or Al	Ag	105mil	100 V	15 A	0.83 V	105 V	0.05 mA	8kv	250 A	175 °C	0.79 V	120 V	2.0 uA

20A Schottky, 45-100V, 120 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	MBR2045-120	Ag or Al	Ag	120mil	45 V	20 A	0.55 V	45 V	0.20 mA	15kv	300 A	150 °C	0.52 V	55 V	50.0 uA
02	PMBR2045-120	Ag or Al	Ag	120mil	45 V	20 A	0.55 V	45 V	0.20 mA	8kv	300 A	150 °C	0.52 V	55 V	50.0 uA
03	HMBR20100-120	Ag or Al	Ag	120mil	100 V	20 A	0.83 V	105 V	0.05 mA	8kv	300 A	175 °C	0.79 V	120 V	5.0 uA

20A Schottky, 45-100V, 122 mils, Dual Anode (10A x 2)

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	HMBR20100-122D	Ag or Al	Ag	122mil	100 V	10A x 2	0.85 V	105 V	0.10 mA	4kv	300 A	175 °C	0.82 V	115 V	10.0 uA

25A Schottky, 45-100V, 130 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	HMBR25100-130	Ag or Al	Ag	130mil	100 V	25 A	0.83 V	105 V	0.05 mA	8kv	400 A	175 °C	0.79 V	115 V	5.0 uA

30A Schottky, 45-100V, 141 mils, Dual Anode (15A x 2)

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	HMBR30100-141D	Ag or Al	Ag	141mil	100 V	15A x 2	0.83 V	105 V	0.05 mA	8kv	400 A	175 °C	0.79 V	115 V	5.0 uA

30A Schottky, 45-100V, 150 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	PMBR3045-150	Ag or Al	Ag	150mil	45 V	30 A	0.55 V	45 V	0.30 mA	8kv	400 A	150 °C	0.52 V	55 V	100.0 uA
02	HMBR30100-150	Ag or Al	Ag	150mil	100 V	30 A	0.80 V	105 V	0.03 mA	8kv	400 A	175 °C	0.77 V	120 V	2.0 uA

30A Schottky, 45-100V, 170 mils, Single Anode

No.	Production	Top Mtl	Back Mtl	Size	VRRM	IF	Vf	Vr	Ir	ESD	IFSM	Tj	Typical Value		
													Vf	Vr	Ir
01	PMBR3045-170	Ag or Al	Ag	170mil	45 V	30 A	0.55 V	50 V	0.30 mA	8kv	400 A	150 °C	0.49 V	55 V	150.0 uA
02	HMBR3065-170	Ag or Al	Ag	170mil	65 V	30 A	0.70 V	66 V	0.05 mA	8kv	400 A	175 °C	0.65 V	75 V	20.0 uA