

Schottky Rectifiers

Surface Mount Schottky Rectifier Packages

SOD-123

Cathode = Band

SMB

Cathode = Notch

SMC

Cathode = Notch

UPAK

CT Suffix

D²PAK

Non-CT Suffix

Mfr.'s Type	V _{RRM} (V)	I _O ¹ (A)	I _O Rating Condition	Max. V _F @ I _F T _C =25°C (V)	I _{FSM} (A)	T _J Max. (°C)	Max I _n ² T _J =25°C (mA)	Max I _n ³ (mA)	Package Style
MBR0520LT1 ⁵	20	0.5	T _L =105°C	0.310 @ 0.1 A	5.0	125	0.075 @ 10 V	5 @ 10 V	SOD-123
MBRS140T3 ⁴	40	1.0	T _L =115°C	0.600 @ 1.0 A	40.0	125	1.000	10	SMB
MBRS340T3 ⁴	40	3.0	T _L =100°C	0.525 @ 3.0 A	80.0	125	2.000	20	SMC
MBRS360T3 ⁴	60	3.0	T _L =100°C	0.740 @ 3.0 A	80.0	125	0.500	20	SMC
MBRD640CT	40	6.0	T _L =130°C	0.700 @ 3.0 A	75.0	150	0.100	15 @ 125°C	DPAK
MBRD660CT	60	6.0	T _C =130°C	0.700 @ 3.0 A	75.0	150	0.100	15 @ 125°C	DPAK
MBRD835L	35	8.0	T _C =100°C	0.400 @ 3.0 A, 0.51 @ 8.0 A	100.0	125	1.400	35	DPAK
MBRB20200CT	200	20.0	T _C =125°C	1.000 @ 20 A	150.0	150	1.000	50 @ 125°C	D ² PAK

¹I_O is total device current capability. ²V_{RRM} unless noted. ³V_{RRM}, T_J=100°C unless noted. ⁴T1 Suffix=3000/reel, T3 suffix=10000/reel. ⁵T3 suffix=2500/reel.

Axial Lead Schottky Rectifiers

Mfr.'s Type	V _{RRM} (V)	I _O (A)	I _O Rating Condition	Max. V _F @ I _F T _C =25°C (V)	I _{FSM} (A)	T _J Max. (°C)	Max I _n ² T _J =25°C (mA)	Max I _n ³ T _L (mA)	Package Style
1N5817	20	1	T _A =55°C, R _{ΘJA} =80°C/W	0.450 @ 1.0 A	25	125	1.0	10	Case 59-04
1N5818	30	1	T _A =55°C, R _{ΘJA} =80°C/W	0.550 @ 1.0 A	25	125	1.0	10	Case 59-04
1N5819	40	1	T _A =55°C, R _{ΘJA} =80°C/W	0.600 @ 1.0 A	25	125	1.0	10	Case 59-04
MBR160	60	1	T _A =55°C, R _{ΘJA} =80°C/W	0.750 @ 1.0 A	25	150	0.5	5	Case 59-04
MBR1100	100	1	T _A =120°C, R _{ΘJA} =50°C/W	0.790 @ 1.0 A	50	150	0.5	5	Case 59-04
1N5820	20	3	T _A =76°C, R _{ΘJA} =28°C/W	0.457 @ 3.0 A	80	125	2.0	20	Case 267-03
1N5821	30	3	T _A =71°C, R _{ΘJA} =28°C/W	0.500 @ 3.0 A	80	125	2.0	20	Case 267-03
1N5822	40	3	T _A =61°C, R _{ΘJA} =28°C/W	0.525 @ 3.0 A	80	125	2.0	20	Case 267-03
MBR340	40	3	T _A =65°C, R _{ΘJA} =28°C/W	0.600 @ 3.0 A	80	150	0.6	20	Case 267-03
MBR360	60	3	T _A =65°C, R _{ΘJA} =28°C/W	0.740 @ 3.0 A	80	150	0.6	20	Case 267-03
MBR3100	100	3	T _A =100°C, R _{ΘJA} =28°C/W	0.790 @ 3.0 A	150	150	0.6	20	Case 267-03

²V_{RRM} unless noted. ³V_{RRM}, T_J=100°C unless noted.

TO-220 Type Schottky Rectifiers

Mfr.'s Type	V _{RRM} (V)	I _O (A)	I _O Rating Condition	Max. V _F @ I _F T _C =25°C (V)	I _{FSM} (A)	T _J Max. (°C)	Max I _n ² T _J =25°C (mA)	Max I _n ³ T _L (mA)	Package Style
MBR1545CT	45	15.0	T _C =105°C	0.84 @ 15 A	150	150	0.1	15 @ 125°C	Case 221A-06
MBR2045CT	45	20.0	T _C =135°C	0.84 @ 20 A	150	150	0.1	15 @ 125°C	Case 221A-06
MBR2060CT	60	20.0	T _C =133°C	0.85 @ 10 A, 0.95 @ 20 A	150	150	0.1	6 @ 125°C	Case 221A-06
MBR20100CT	100	20.0	T _C =133°C	0.85 @ 10 A, 0.95 @ 20 A	150	150	1.1	6 @ 125°C	Case 221A-06
MBR20200CT	200	20.0	T _C =125°C	1.00 @ 20 A	150	150	1.0	50 @ 125°C	Case 221A-06
MBR2515L	15	25.0	T _C =90°C	0.45 @ 25 A	150	100	15.0	200 @ 70°C	Case 221A-06
MBR2535CTL	35	25.0	T _C =95°C	0.55 @ 25 A	150	125	5.0	500 @ 125°C	Case 221A-06
MBR2545CT	45	25.0	T _C =130°C	0.82 @ 30 A	150	150	0.2	40 @ 125°C	Case 221A-06
MBR745	45	7.5	T _C =105°C	0.84 @ 15 A	150	150	0.1	15 @ 125°C	Case 221B-03
MBR1045	45	10.0	T _C =135°C	0.84 @ 20 A	150	150	0.1	15 @ 125°C	Case 221B-03
MBR1060	60	10.0	T _C =133°C	0.80 @ 10 A	150	150	0.1	6 @ 125°C	Case 221B-03
MBR10100	100	10.0	T _C =133°C	0.80 @ 10 A	150	150	0.1	6 @ 125°C	Case 221B-03
MBR1645	45	16.0	T _C =125°C	0.63 @ 16 A	150	150	0.2	40 @ 125°C	Case 221B-03

²V_{RRM} unless noted. ³V_{RRM}, T_J=100°C unless noted.

TO-218 Types and TO-247 Schottky Rectifiers

MBR6045PT	45	60	T _C =125°C	0.62 @ 30 A, 0.75 @ 60 A	500	150	1.0	50	Case 340D-01
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²V_{RRM} unless noted. ³V_{RRM}, T_J=100°C unless noted.

Power Tap II Schottky Rectifiers

Mfr.'s Type	V _{RRM} (V)	I _O (A)	I _O Rating Condition	Max. V _F @ I _F T _C =25°C (V)	I _{FSM} (A)	T _J Max. (°C)	Max I _n ² T _J =25°C (mA)	Max I _n ³ T _L (mA)	Package Style
MBRP30060CT	60	300	T _C =120°C	0.79 @ 150 A, 0.89 @ 300 A	2500	175	0.8	75 @ 125°C	Case 375C-03

¹I_O is total device current capability. ²V_{RRM} unless noted. ³V_{RRM}, T_J=100°C unless noted.

UPAK

CT Suffix

D²PAK

Non-CT Suffix

Case 59-04 Plastic

Cathode = Polarity Band

Case 267-03 Plastic

Case 221A-06 (TO-220AB)

Case 221B-03 (TO-220AC)

Case 340D-01 (TO-218AC)

Case 375C-03 POWERTAP™

Cathode = Mounting Plate
Anode = Terminal