



# SCHOTTKY BARRIER RECTIFIERS

OPERATING/STORAGE TEMPERATURE RANGE: -55°C TO 125°C

MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		Package
	$V_{RWM}$	$I_{F(AV)}$ @ $T_L$		$I_{FSM}$	$I_R$	$I_{FM}$	$V_{FM}$	
	V	A	°C	A	μA	A	V	

## Through Hole Schottky Barrier Rectifiers

M5819	40	0.6	90	20	0.5	0.01	.60	DO-41		
1N5817	20	1.0	90	25	1.0	1.0	.45			
1N5818	30		90	25	1.0	1.0	.55			
1N5819	40		90	25	1.0	1.0	.60			
SR106	60		75	30	0.5	1.0	.70			
SR108	80		75	30	0.5	1.0	.85			
SR1010	100		75	30	0.5	1.0	.85			
SR202	20	2.0	95	50	1.0	2.0	.55			
SR203	30		95	50	1.0	2.0	.55			
SR204	40		95	50	1.0	2.0	.55			
SR206	60		100	50	1.0	2.0	.70			
SR208	80		100	50	1.0	2.0	.85			
SR2010	100		100	50	1.0	2.0	.85			
1N17	20	1.0	90	25	0.5	1.0	.45	R-1		
1N18	30		90	25	0.5	1.0	.55			
1N19	40		90	25	0.5	1.0	.60			
1S20	20		75	35	0.5	1.0	.55			
1S30	30		75	35	0.5	1.0	.55			
1S40	40		75	35	0.5	1.0	.55			
1S50	50		75	35	0.5	1.0	.70			
1S60	60		75	35	0.5	1.0	.70			
1S80	80		75	35	0.5	1.0	.85			
1SA0	100		75	35	0.5	1.0	.85			
1N5820	20		3.0	85	80	2.0	3.0		.475	DO-201AD
1N5821	30			85	80	2.0	3.0		.500	
1N5822	40			85	80	2.0	3.0		.525	
SR305	50			85	80	1.0	3.0		.72	
SR306	60			85	80	1.0	3.0		.72	
SR308	80			85	80	1.0	3.0		.85	
SR3010	100		85	80	1.0	3.0	.85			
SR502	20		5.0	85	150	1.0	5.0		.55	
SR503	30	85		150	1.0	5.0	.55			
SR504	40	85		150	1.0	5.0	.55			
SR505	50	85		150	1.0	5.0	.70			
SR506	60	85		150	1.0	5.0	.70			
SR508	80	85		150	1.0	5.0	.85			
SR5010	100	85	150	1.0	5.0	.85				
MS820	20	8.0	120	200	1.0	8.0	.62	DO-201AD		
MS830	30		120	200	1.0	8.0	.62			
MS835	35		120	200	1.0	8.0	.62			
MS840	40		120	200	1.0	8.0	.62			
MS845	45		120	200	1.0	8.0	.62			
MS860	60		120	200	1.0	8.0	.62			
MS880	80		120	200	1.0	8.0	.85			
MS8100	100		120	200	1.0	8.0	.85			
SR802	20		90	175	1.0	8.0	.65			
SR803	30		90	175	1.0	8.0	.65			
SR804	40		90	175	1.0	8.0	.65			
SR805	50		90	175	1.0	8.0	.65			
SR806	60	90	175	1.0	8.0	.70				
SR808	80	90	175	1.0	8.0	.85				
SR810	100	90	175	1.0	8.0	.85				



MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		Package		
		$I_{F(AV)}$ @ $T_L$				$I_{FSM}$	$I_R$		$I_{FM}$	$V_{FM}$
		A	°C							
MBR720	20	7.5	125	150	0.1	15	.84	TO-220AC		
MBR730	30		125	150	0.1	15	.84			
MBR735	35		125	150	0.1	15	.84			
MBR740	40		125	150	0.1	15	.84			
MBR745	45		125	150	0.1	15	.84			
MBR760	60		125	150	0.5	7.5	.75			
MBR1020	20	10	125	150	0.1	20.0	.84			
MBR1030	30		125	150	0.1	20.0	.84			
MBR1035	35		125	150	0.1	20.0	.84			
MBR1040	40		125	150	0.1	20.0	.84			
MBR1045	45		125	150	0.1	20.0	.95			
MBR1060	60		125	150	0.15	20.0	.95			
MBR1080	80		125	150	0.15	10.0	.84			
MBR10100	100		125	150	0.15	10.0	.84			
MBR1520	20	15	125	150	0.2	16	.63			
MBR1530	30		125	150	0.2	16	.63			
MBR1535	35		125	150	0.2	16	.63			
MBR1540	40		125	150	0.2	16	.63			
MBR1545	45		125	150	0.2	16	.63			
MBR1560	60		125	150	0.2	15	.75			
MBR1620	20	16	125	150	0.2	16	.63			
MBR1630	30		125	150	0.2	16	.63			
MBR1635	35		125	150	0.2	16	.63			
MBR1640	40		125	150	0.2	16	.63			
MBR1645	45		125	150	0.2	16	.63			
MBR1660	60		125	150	1.0	16	.75			
MBRF1020CT	20	10	100	150	0.5	5.0	.55	ITO-220AB		
MBRF1030CT	30		100	150	0.5	5.0	.55			
MBRF1040CT	40		100	150	0.5	5.0	.55			
MBRF1050CT	50		100	150	0.5	5.0	.75			
MBRF1060CT	60		100	150	0.5	5.0	.75			
MBRF1080CT	80		100	150	0.5	5.0	.85			
MBRF1090CT	90		100	150	0.5	5.0	.85			
MBRF10100CT	100		100	150	0.5	5.0	.85			
MBR1030CT	30		10	105	125	0.1	5.0	.70	TO-220AB	
MBR1035CT	35			105	125	0.1	5.0	.70		
MBR1040CT	40	105		125	0.1	5.0	.70			
MBR1045CT	45	105		125	0.1	5.0	.70			
MBR1050CT	50	105		125	0.1	5.0	.80			
MBR1060CT	60	105		125	0.1	5.0	.80			
MBR1080CT	80	100		120	0.1	5.0	.85			
MBR10100CT	100	100		120	0.1	5.0	.85			
MBR10150CT	150	155	120	50	5.0	.92				
MBR1520CT	20	15	125	150	0.1	15	.84			
MBR1530CT	30		125	150	0.1	15	.84			
MBR1535CT	35		125	150	0.1	15	.84			
MBR1540CT	40		125	150	0.1	15	.84			
MBR1545CT	45		125	150	0.1	15	.84			
MBR1560CT	60		125	150	1.0	15	.90			
MBR1620CT	20	16	100	125	0.1	16	.70			
MBR1630CT	30		100	125	0.1	16	.70			
MBR1635CT	35		100	125	0.1	16	.70			
MBR1640CT	40		100	125	0.1	16	.70			
MBR1645CT	45		100	125	0.1	16	.70			
MBR1660CT	60		100	125	0.1	16	.80			
MBR16100CT	100		100	125	100	8.0	.85			

MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		Package		
		$I_{F(AV)}$ @ $T_L$				$I_{FSM}$	$I_R$		$I_{FM}$	$V_{FM}$
		A	°C							
MBR2020CT	20	20	120	150	0.1	10.0	.70	TO-220AB		
MBR2030CT	30		120	150	0.1	10.0	.70			
MBR2035CT	35		120	150	0.1	10.0	.70			
MBR2040CT	40		120	150	0.1	10.0	.70			
MBR2045CT	45		120	150	0.1	10.0	.70			
MBR2060CT	60		120	150	0.1	10.0	.80			
MBR2080CT	80		120	150	0.1	10.0	.85			
MBR20100CT	100		120	150	0.1	10.0	.85			
MBR20150CT	150		150	180	25	10.0	.92			
MBR20200CT	200		125	150	50	10.0	.95			
MBR2520CT	20	25	130	150	0.2	30.0	.82	TO-220AB		
MBR2530CT	30		130	150	0.2	30.0	.82			
MBR2535CT	35		130	150	0.2	30.0	.82			
MBR2540CT	40		130	150	0.2	30.0	.82			
MBR2545CT	45		130	150	1.0	15.0	.75			
MBR2560CT	60		130	150	1.0	15.0	.75			
MBR30100CT	100	30	125	250	500	15	.85	TO-220AB		
SBL3030CT	30		100	250	1.0	15	.55			
SBL3040CT	40		100	250	1.0	15	.55			
MBR3020PT	20	30	125	200	1.0	30	.76	TO-247		
MBR3030PT	30		125	200	1.0	30	.76			
MBR3035PT	35		125	200	1.0	30	.76			
MBR3040PT	40		125	200	1.0	30	.76			
MBR3045PT	45		125	200	1.0	30	.76			
MBR3060PT	60		125	200	5.0	30	.80			
MBR4020PT	20	40	125	400	1.0	40	.80	TO-247		
MBR4030PT	30		125	400	1.0	40	.80			
MBR4035PT	35		125	400	1.0	40	.80			
MBR4040PT	40		125	400	1.0	40	.80			
MBR4045PT	45		125	400	1.0	40	.80			
MBR4060PT	60		125	400	1.0	40	.90			
MBR5020PT	20	50	125	200	0.1	30	.62	TO-247		
MBR5030PT	30		125	200	0.1	30	.62			
MBR5035PT	35		125	200	0.1	30	.62			
MBR5040PT	40		125	200	0.1	30	.62			
MBR5045PT	45		125	200	0.1	30	.62			



### Surface Mount Schottky Barrier Rectifiers

MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L$ *	Maximum Forward Voltage @ 25°C $T_L$ *		Package		
	$V_{RWM}$	$I_o$ @ $T_L$		$I_{FSM}$	$I_R$	$I_{FM}$	$V_{FM}$			
	V	A	°C	A	μA	A	V			
MBRX120	20	1.0	90	20	0.3	1.0	.45	SOD-123		
MBRX130	30		90	20	0.3	1.0	.55			
MBRX140	40		90	20	0.3	1.0	.55			
MBRX160	60		90	20	0.3	1.0	.72			
MBRX180	80		90	20	0.3	1.0	.85			
RB491D	20		1.0	90	5.0	0.1	1.0	.45	SOT-346	
RB490D	40			90	5.0	0.1	1.0	.53		
DL5817	20		1.0	90	25	1.0	1.0	.45	MELF	
DL5818	30			90	25	1.0	1.0	.55		
DL5819	40			90	25	1.0	1.0	.60		
DLSR106	60	75		30	0.5	1.0	.70			
DLSR108	80	75		30	0.5	1.0	.80			
DLSR1010	100	75		30	0.5	1.0	.85			
SS12	20	1.0	100	30	0.5	1.0	.45	HSMA*		
SS13	30		100	30	0.5	1.0	.55			
SS14	40		100	30	0.5	1.0	.60			
SS15	50		100	30	0.5	1.0	.70			
SS16	60		100	30	0.5	1.0	.70			
SS18	80		100	30	0.5	1.0	.85			
SS110	100		100	30	0.5	1.0	.85			
SS22	20		2.0	100	50	0.5	2.0		.55	HSMA*
SS23	30			100	50	0.5	2.0		.55	
SS24	40			100	50	0.5	2.0		.55	
SS25	50	100		50	0.5	2.0	.70			
SS26	60	100		50	0.5	2.0	.70			
SS28	80	100		50	0.5	2.0	.85			
SS210	100	100		50	0.5	2.0	.85			
SK32A	20	3.0	120	100	0.5	3.0	.50	HSMA*		
SK33A	30		120	100	0.5	3.0	.50			
SK34A	40		120	100	0.5	3.0	.50			
SK35A	50		120	100	0.5	3.0	.75			
SK36A	60		120	100	0.5	3.0	.75			
SK38A	80		120	100	0.5	3.0	.85			
SK310A	100		120	100	0.5	3.0	.85			
MBRD320L	20	3.0	75	75	0.2	3.0	0.50	D-PACK		
MBRD330L	30		75	75	0.2	3.0	0.50			
MBRD340L	40		75	75	0.2	3.0	0.50			
MBRD350L	50		75	75	0.2	3.0	0.65			
MBRD360L	60		75	75	0.2	3.0	0.65			
MBRD520	20	5.0	75	100	0.2	5.0	0.55	D-PACK		
MBRD530	30		75	100	0.2	5.0	0.55			
MBRD540	40		75	100	0.2	5.0	0.55			
MBRD550	50		75	100	0.2	5.0	0.75			
MBRD560	60		75	100	0.2	5.0	0.75			
MBRD580	100		75	100	0.2	5.0	0.85			
MBRD5100	80		75	100	0.2	5.0	0.85			
MBRB820	20	8.0	100	150	0.5	8.0	.55	D <sup>2</sup> -PACK		
MBRB830	30		100	150	0.5	8.0	.55			
MBRB840	40		100	150	0.5	8.0	.55			
MBRB850	50		100	150	0.5	8.0	.75			
MBRB860	60		100	150	0.5	8.0	.75			
MBRB880	80		100	150	0.5	8.0	.85			
MBRB8100	100		100	150	0.5	8.0	.85			
MBRB10100CT	100		10	100	150	100	5.0		.85	
MBRB10200CT	200	10	125	130	50	5.0	.98			

\*Note: Also can be made for Lead Frame Package

MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		Package		
		$I_O$ @ $T_L$				$I_{FSM}$	$I_R$		$I_{FM}$	$V_{FM}$
		A	°C			A	$\mu A$		A	V
MBRB1520CT	20	15	105	150	0.1	15	.84	D <sup>2</sup> -PACK		
MBRB1530CT	30		105	150	0.1	15	.84			
MBRB1535CT	35		105	150	0.1	15	.84			
MBRB1540CT	40		105	150	0.1	15	.84			
MBRB1545CT	45		105	150	0.1	15	.84			
MBRB1560CT	60		105	150	1.0	16	.90			
MBRB2020CT	20	20	125	150	0.1	20.0	.84			
MBRB2030CT	30		125	150	0.1	20.0	.84			
MBRB2035CT	35		125	150	0.1	20.0	.84			
MBRB2040CT	40		125	150	0.1	20.0	.84			
MBRB2045CT	45		125	150	0.1	20.0	.84			
MBRB2060CT	60		125	150	0.1	10.0	.80			
MBRB2080CT	80		125	150	0.1	10.0	.85			
MBRB20100CT	100		125	150	0.1	10.0	.85			
MBRB20200CT	200		125	150	0.05	10	.95			
MBRB2520CT	20	25	130	150	0.2	30.0	.82			
MBRB2530CT	30		130	150	0.2	30.0	.82			
MBRB2535CT	35		130	150	0.2	30.0	.82			
MBRB2540CT	40		130	150	0.2	30.0	.82			
MBRB2545CT	45		130	150	0.2	15.0	.75			
MBRB2560CT	60		130	150	0.2	15.0	.75			
SK12	20	1.0	90	30	0.5	1.0	.45	HSMB*		
SK13	30		90	30	0.5	1.0	.55			
SK14	40		90	30	0.5	1.0	.60			
SK15	50		90	30	0.5	1.0	.72			
SK16	60		90	30	0.5	1.0	.72			
SK18	80		90	30	0.5	1.0	.85			
SK110	100		90	30	0.5	1.0	.85			
SK22	20	2.0	90	50	0.5	2.0	.55			
SK23	30		90	50	0.5	2.0	.55			
SK24	40		90	50	0.5	2.0	.55			
SK25	50		90	50	0.5	2.0	.70			
SK26	60		90	50	0.5	2.0	.70			
SK28	80		90	50	0.5	2.0	.85			
SK210	100		90	50	0.5	2.0	.85			
SK32B	20	3.0	120	100	0.5	3.0	.50	SMC		
SK33B	30		120	100	0.5	3.0	.50			
SK34B	40		120	100	0.5	3.0	.50			
SK35B	50		120	100	0.5	3.0	.75			
SK36B	60		120	100	0.5	3.0	.75			
SK38B	80		120	100	0.5	3.0	.85			
SK310B	100		120	100	0.5	3.0	.85			
SK32	20	3.0	120	100	0.5	3.0	.50	SMC		
SK33	30		120	100	0.5	3.0	.50			
SK34	40		120	100	0.5	3.0	.50			
SK35	50		120	100	0.5	3.0	.75			
SK36	60		120	100	0.5	3.0	.75			
SK38	80		120	100	0.5	3.0	.85			
SK310	100		120	100	0.5	3.0	.85			

\*Note: Also can be made for Lead Frame Package

MCC Part Number	Working Peak Reverse Voltage	Average Forward Current @ Half-Wave Resistive Load 60Hz		Forward Peak Surge Current @ 8.3mS Superimposed	Maximum Reverse Current @ $V_{RWM}$ @ 25°C $T_L^*$	Maximum Forward Voltage @ 25°C $T_L^*$		Package		
		$I_o$ @ $T_L$				$I_{FSM}$	$I_R$		$I_{FM}$	$V_{FM}$
		A	°C			A	μA		A	V
SK52L	20	5.0	120	100	1.0	5.0	.55	SMC		
SK53L	30		120	100	1.0	5.0	.55			
SK54L	40		120	100	1.0	5.0	.55			
SK545L	45		120	100	1.0	5.0	.55			
SK55L	50		120	100	1.0	5.0	.75			
SK56L	60		120	100	1.0	5.0	.75			
SK58L	80		120	100	1.0	5.0	.85			
SK510L	100		120	100	1.0	5.0	.85			
SK82L	20	8.0	95	200	1.0	8.0	.65			
SK83L	30		95	200	1.0	8.0	.65			
SK835L	35		95	200	1.0	8.0	.65			
SK84L	40		95	200	1.0	8.0	.65			
SK845L	45		95	200	1.0	8.0	.65			
SK86L	60		95	200	1.0	8.0	.65			
SK88L	80		95	200	1.0	8.0	.80			
SK810L	100		95	200	1.0	8.0	.80			
SK52	20	5.0	120	150	1.0	5.0	.55	HSMC		
SK53	30		120	150	1.0	5.0	.55			
SK54	40		120	150	1.0	5.0	.55			
SK545	45		120	150	1.0	5.0	.55			
SK55	50		120	150	1.0	5.0	.75			
SK56	60		120	150	1.0	5.0	.75			
SK58	80		120	150	1.0	5.0	.85			
SK510	100		120	150	1.0	5.0	.85			
SK82	20	8.0	95	200	1.0	8.0	.65			
SK83	30		95	200	1.0	8.0	.65			
SK835	35		95	200	1.0	8.0	.65			
SK84	40		95	200	1.0	8.0	.65			
SK845	45		95	200	1.0	8.0	.65			
SK86	60		95	200	1.0	8.0	.65			
SK88	80		95	200	1.0	8.0	.85			
SK810	100		95	200	1.0	8.0	.85			
SK102	20	10	120	250	1.0	10.0	.65			
SK103	30		120	250	1.0	10.0	.65			
SK1035	35		120	250	1.0	10.0	.65			
SK104	40		120	250	1.0	10.0	.65			
SK1045	45		120	250	1.0	10.0	.65			
SK105	50		120	250	1.0	10.0	.85			
SK106	60		120	250	1.0	10.0	.85			
SK108	80		120	250	1.0	10.0	.85			
SK1010	100	120	250	1.0	10.0	.85				
SK152	20	15	120	300	1.0	15	.55			
SK153	30		120	300	1.0	15	.55			
SK1535	35		120	300	1.0	15	.55			
SK154	40		120	300	1.0	15	.55			
SK1545	45		120	300	1.0	15	.55			
SK155	50		120	300	1.0	15	.85			
SK156	60		120	300	1.0	15	.85			
SK158	80		120	300	1.0	15	.85			
SK1510	100	120	300	1.0	15	.85				