

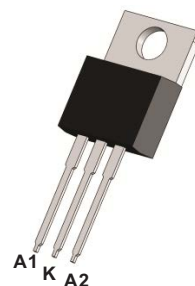
MBRx3040CT~MBRx30200CT

Schottky Barrier Diode

Features

- High surge capability
- High current capability
- Low forward voltage drop
- Low power loss, high efficiency

TO-220ABW



TO-220FW



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Characteristics	TO-220ABW	MBR3040CT	MBR3045CT	MBR3060CT	MBR30100CT	MBR30150CT	MBR30200CT	Units
	TO-220FW	MBRF3040CT	MBRF3045CT	MBRF3060CT	MBRF30100CT	MBRF30150CT	MBRF30200CT	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	45	60	100	150	200	V
Maximum RMS Voltage	V _{RMS}	28	31.5	42	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	60	100	150	200	V
Maximum Average Forward Rectified Current Per Diode Per Device	I _{F(AV)}	15 30						A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) Per Diode	I _{FSM}	200						A
Maximum Instantaneous Forward Voltage at 15 A (Per Diode)	V _F	0.75		0.80	0.88	0.92	0.95	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A = 25 °C 								

Note:

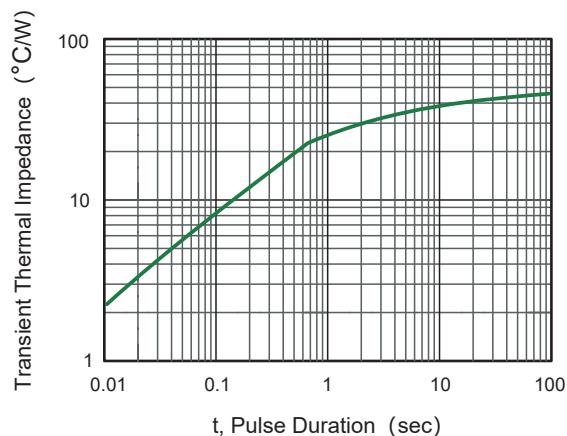
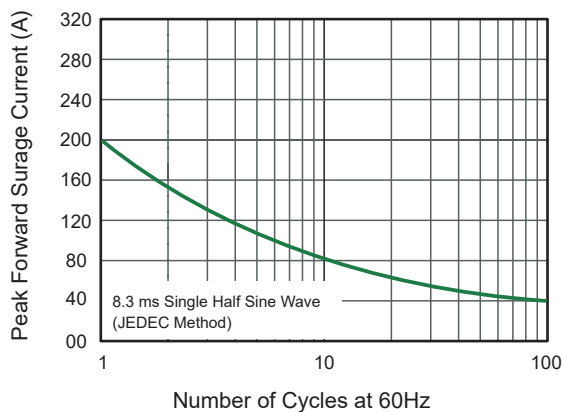
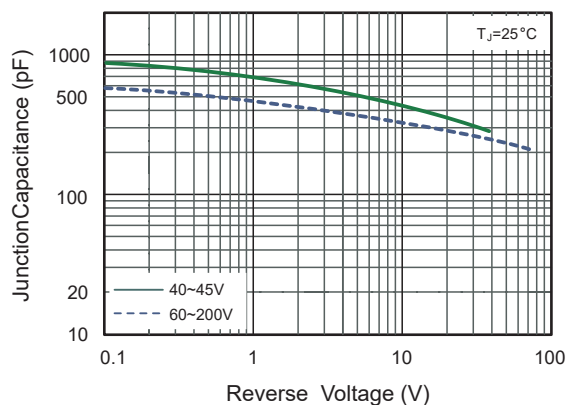
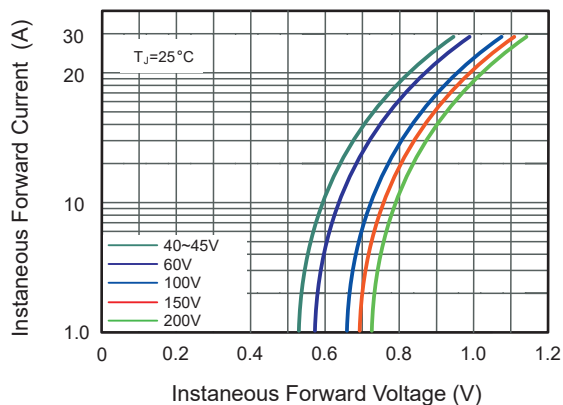
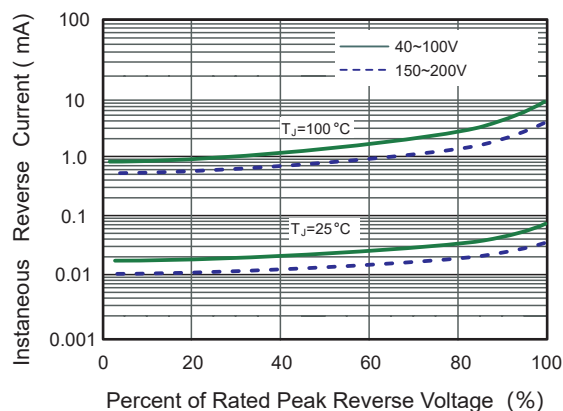
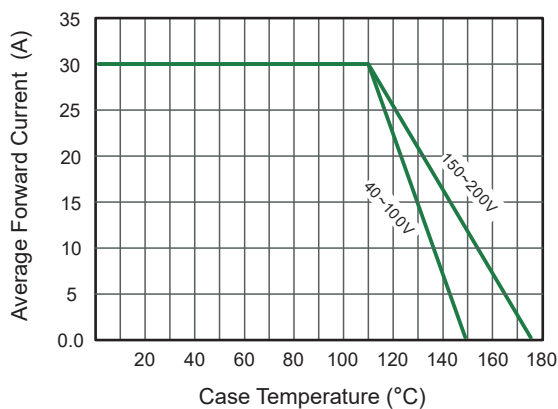
1. Measured at 1 MHz and applied reverse voltage of 4V D.C.
2. Mounted on 10cm x 10cm x 1mm copper pad area.



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Typical Characteristic Curves





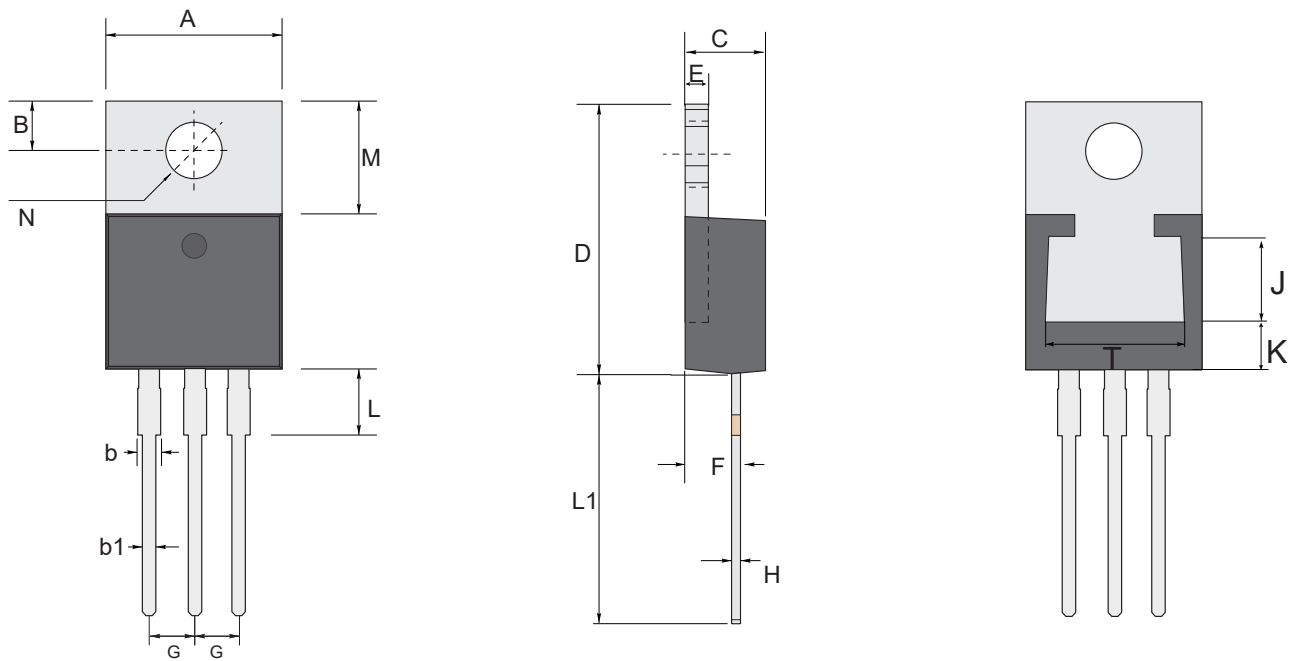
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Schottky Barrier Diode

Package Outline

TO-220ABW

Dimensions in mm



TO-220ABW mechanical data

UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N	J	T	K
mm	max	10.45	2.94	1.77	0.94	4.76	16.0	1.40	2.80	2.54 TYPICAL	0.64	4.2	14.79	6.6 TYPICAL	3.8 TYPICAL	4.65 ref.	7.70 ref.	3.22 ref.
	typ	9.94	2.74	1.27	0.81	4.53	15.09	1.27	2.69		0.38	3.89	13.18					
	min	9.85	2.54	1.14	0.62	4.42	14.6	1.14	2.20		0.35	2.8	13.08					
mil	max	411	116	70	40	187	630	55	110	100 TYPICAL	25	165	582	259 TYPICAL	150 TYPICAL	1.83 ref.	303 ref.	126 ref.
	typ	391	107	50	31	178	594	50	105		15	153	519					
	min	388	100	45	24	174	575	45	87		14	110	515					



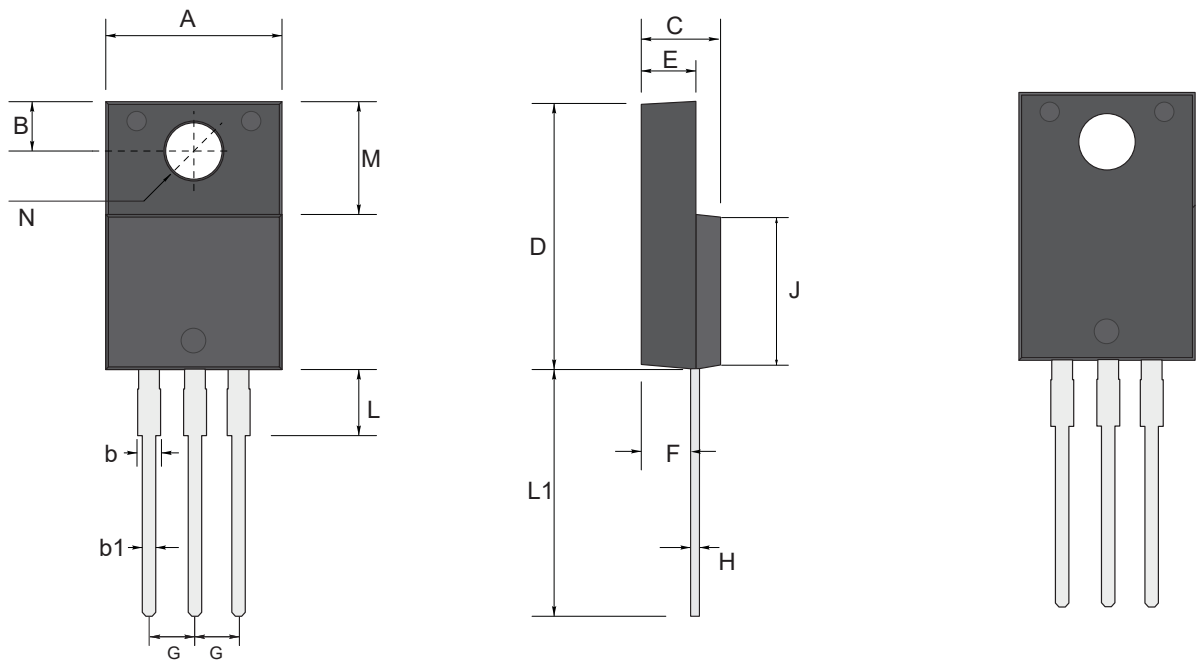
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Schottky Barrier Diode

Package Outline

TO-220FW

Dimensions in mm



TO-220FW mechanical data

UNIT		A	B	b	b1	C	D	E	F	G	H	L	L1	M	N
mm	max	10.5	2.85	1.4	0.8	4.7	16.0	2.9	2.8	2.54 TYPICAL	0.70	2.9	14.3	7.0	3.4 TYPICAL
	typ	10.0	2.70	1.2	0.6	4.5	15.0	2.7	2.7		0.55	2.5	13.5	6.8	
	min	9.85	2.54	1.1	0.5	4.4	14.7	2.5	2.5		0.41	2.3	13.0	6.3	
mil	max	413	112	55	31	185	630	114	110	100 TYPICAL	27	114	563	276	133 TYPICAL
	typ	394	106	47	24	177	590	106	106		22	98	531	267	
	min	388	100	43	20	173	580	98	98		16	91	512	248	