



Low VF Schottky Barrier Rectifiers
Reverse Voltage - 40 Volts
Forward Current - 60 Amperes

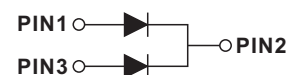
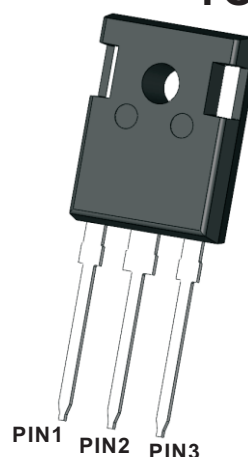
TO-247-3L

Features

- High current capability
- High surge capability
- Super Low Forward Voltage Drop
- Reliable High Temperature Operation
- Softest, fast switching capability
- Lead Free Finish, RoHS Compliant

Mechanical data

- Case: TO-247-3L
- Approx Weight: 6.3g (0.22oz)
- Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".



Packing Marking And Ordering Information

Device Package	Device	Marking	Packing Type	QTY Per Tube	Inner box	Per Carton
TO-247-3L	MBR6040WD	MBR6040WD	Tube	30 Pcs	600 Pcs	1,200 Pcs

Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Parameter	Symbols	MBR6040WD	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Average Rectified Forward Current Per leg Per device	I_o	30 60	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	I_{FSM}	400	A
Operating Junction Temperature Range	T_j	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Parameter	Symbols	Test Conditions	Min	Typ	Max	Units
Breakdown Voltage per leg	V_{BR}	$I_R=0.5mA$	40			V
Instantaneous Forward Voltage per leg	V_F	$I_F=30A, T_J=25^\circ C$		0.52	0.60	V
Reverse Current per leg	I_R	$V_R=40, T_J=25^\circ C$			1	mA



Fig.1 Typical Forward Current Derating Curve

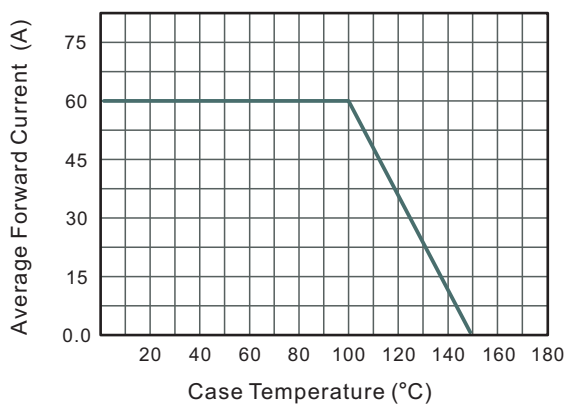


Fig.2 Typical Reverse Characteristics

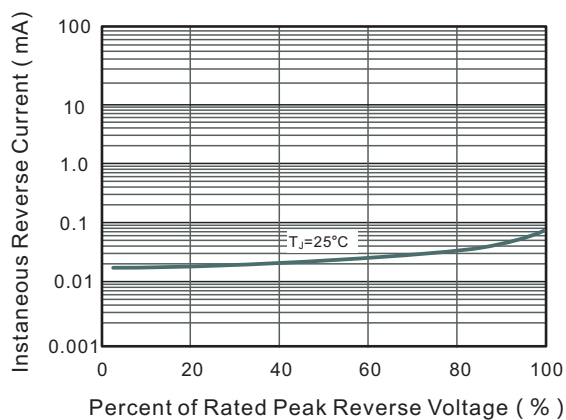


Fig.3 Typical Forward Characteristic(per leg)

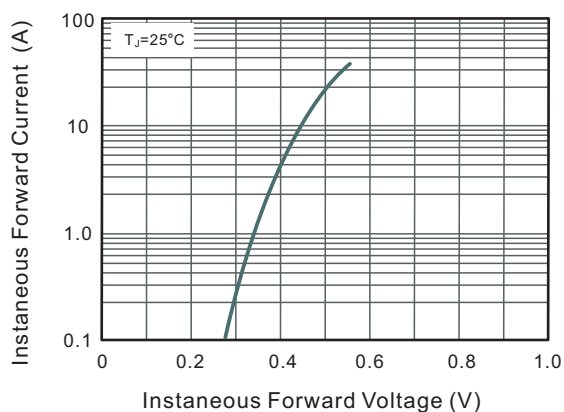
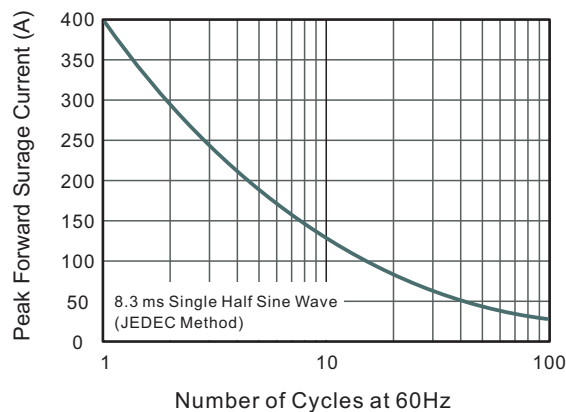


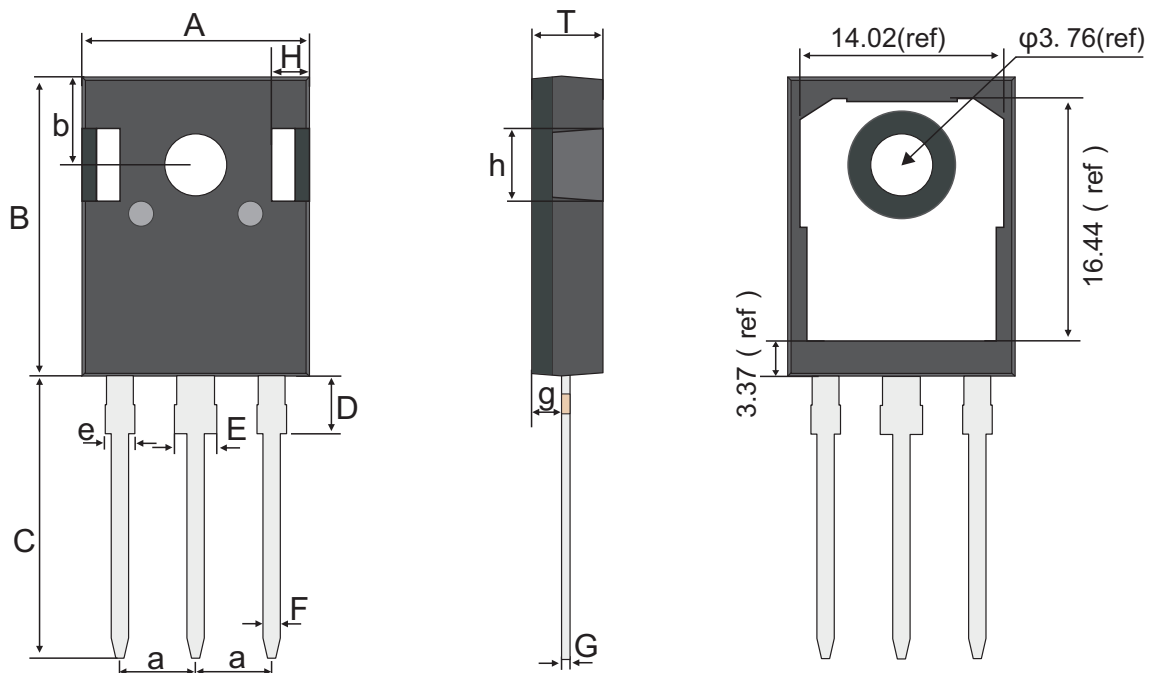
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current





Package Outline
Through Hole Package ; 3 leads

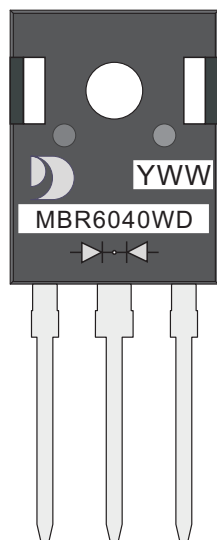
TO-247-3L



TO-247-3L mechanical data

UNIT		A	a	B	b	C	D	E	e	F	G	g	H	h	T
mm	max	16.01	5.54	21.18	6.26	20.2	4.25	3.25	2.2	1.3	0.7	2.49	2.71	5.37	5.2
	typ	15.81	5.44	20.98	6.16	20.0	4.15	3.10	2.05	1.2	0.6	2.39	2.51	5.17	5.0
	min	15.61	5.34	20.78	6.06	19.8	4.05	2.95	1.9	1.1	0.5	2.29	2.31	4.97	4.8
mil	max	630	218	834	246	795	167	128	87	51	28	98	107	211	205
	typ	622	214	826	243	787	163	122	81	47	24	94	99	204	197
	min	615	210	818	239	780	159	116	75	43	20	90	91	196	189

Marking Diagram



YWW: Date Code
Y: Years(0~9)
WW: Week
MBR6040WD: Product name
(NOTE: The weekly code is based on the actual number of weeks in the calendar year.)



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