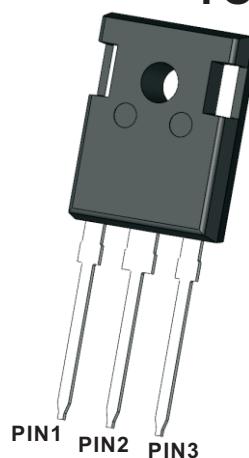




**Low VF Schottky Barrier Rectifiers**  
**Reverse Voltage - 200 Volts**  
**Forward Current - 60 Amperes**

**TO-247-3L**



**RoHS**  
COMPLIANT



### 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".

### Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Characteristics	Symbols	MBR60200WD		Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200		V
Maximum RMS voltage	$V_{RMS}$	200		V
Maximum DC Blocking Voltage	$V_{DC}$	200		V
Maximum Average Forward Rectified Current Per leg Per device	$I_{F(AV)}$	30 60		A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	$I_{FSM}$	450		A
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	335		pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JC}$ $R_{\theta JA}$	2 50		°C/W
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
Instantaneous Forward Voltage per leg	$V_F$	$I_F=30A, T_J=25^\circ C$		0.84	0.90	V
Reverse Current per leg	$I_R$	$V_R=200V, T_J=25^\circ C$			0.02	mA

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 10cmX10cmX1mm copper pad areas.



Fig.1 Typical Forward Current Derating Curve

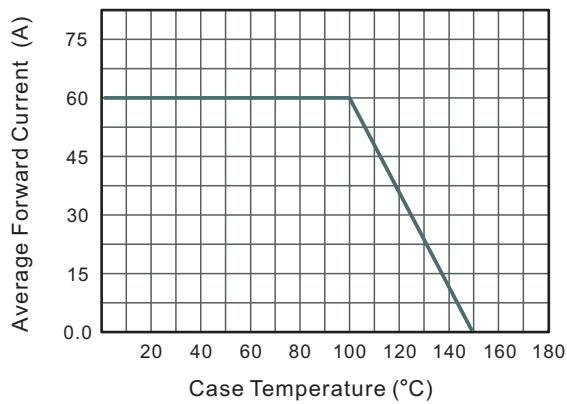


Fig.2 Typical Reverse Characteristics

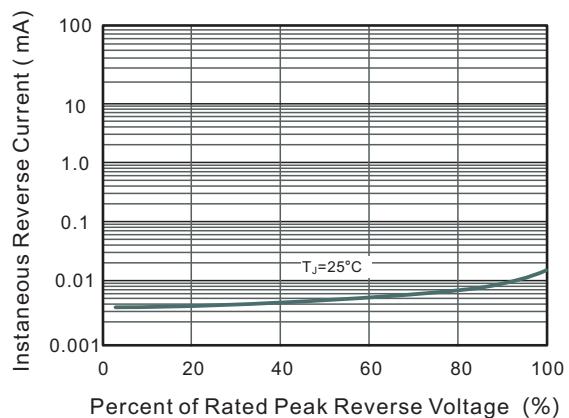


Fig.3 Typical Forward Characteristic(per leg)

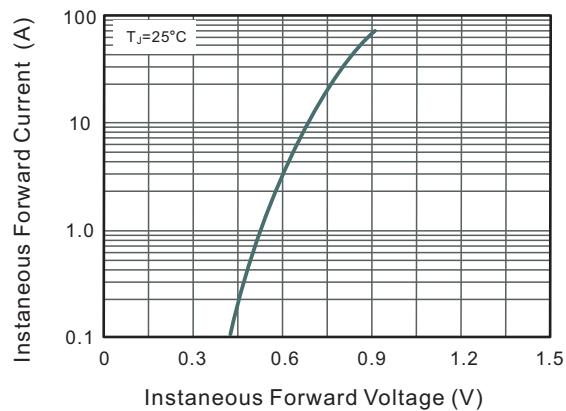
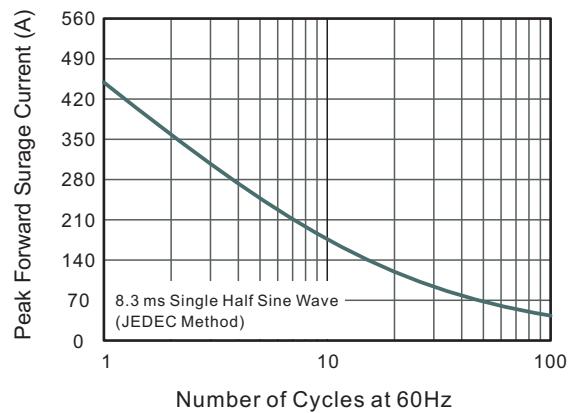


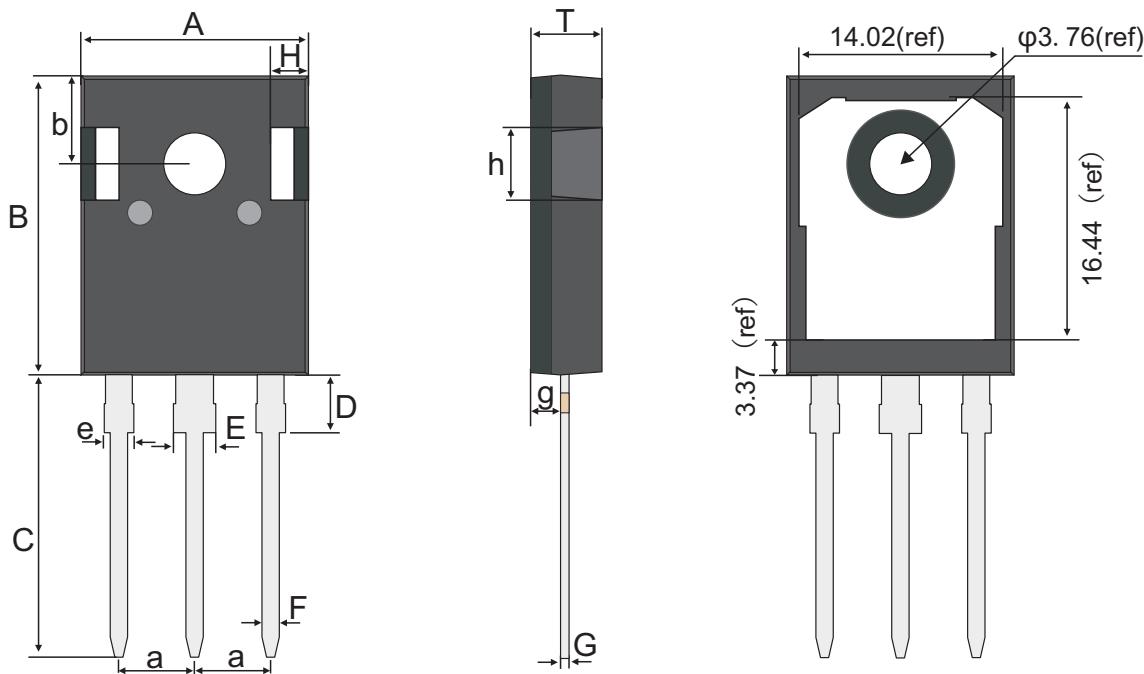
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current





Package Outline  
Through Hole Package ; 3 leads

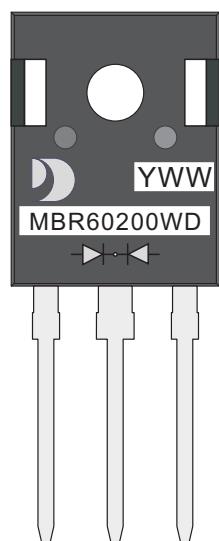
TO-247-3L



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  
MBR60200WD: Product name  
(NOTE:The weekly code is based on the actual number of weeks in the calendar year.)



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