



Extrtreme Low VF Schottky Barrier Rectifiers
Reverse Voltage - 200 Volts
Forward Current - 40 Amperes

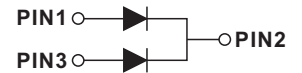
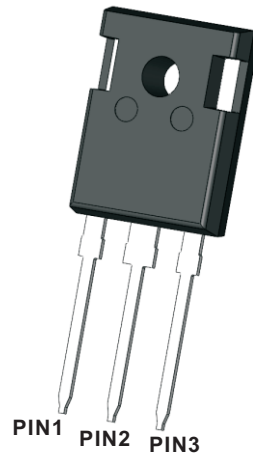
Features

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

Mechanical data

- Case: TO-247-3L
- Approx Weight: 6.3g (0.222oz)
- Case Material: “Green” molding compound, UL flammability classification 94V-0, “Halogen-free”.

TO-247-3L



Packing Marking And Ordering Information

Device Package	Device	Marking	Packing Type	QTY Per Tube	Inner box	Per Carton
TO-247-3L	MBRT40200LWD	MBRT40200LWD	Tube	30 Pcs	600 Pcs	1,200 Pcs

Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Characteristics	Symbols	MBRT40200LWD	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Average Rectified Forward Current Per leg Per device	I_O	20 40	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	I_{FSM}	220	A
Operating Junction Temperature Range	T_j	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Characteristics	Symbols	Test Conditions	Min	Typ	Max	Units
Breakdown voltage per leg	V_{BR}	$I_R=0.1mA$	200			V
Instantaneous forward voltage per leg	V_F	$I_F=20A, T_J=25^\circ C$		0.84	0.95	V
Reverse current per leg	I_R	$V_R=200V, T_J=25^\circ C$			0.1	mA



Fig.1 Typical Forward Current Derating Curve

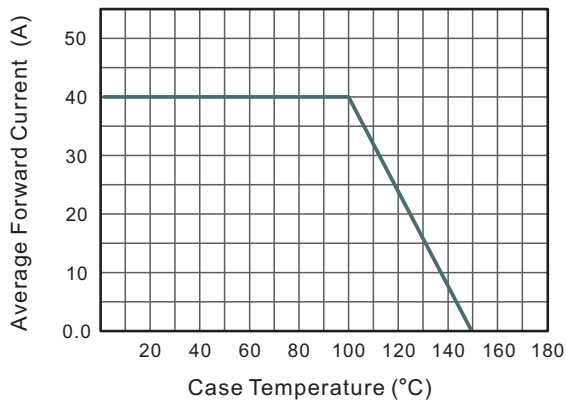


Fig.2 Typical Reverse Characteristics

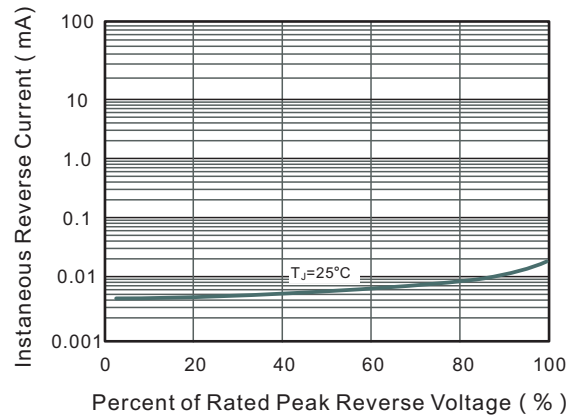


Fig.3 Typical Forward Characteristic(per leg)

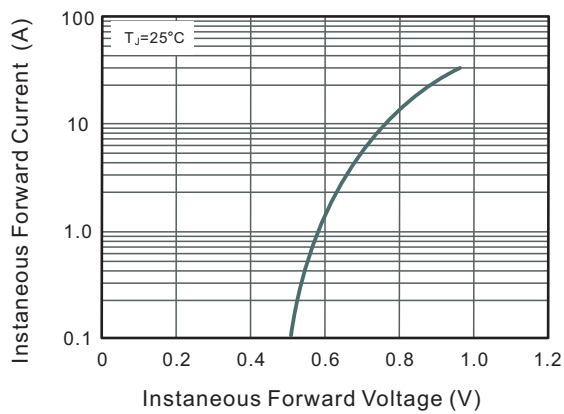
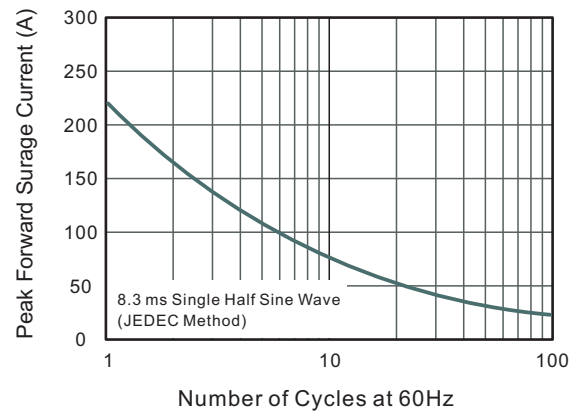


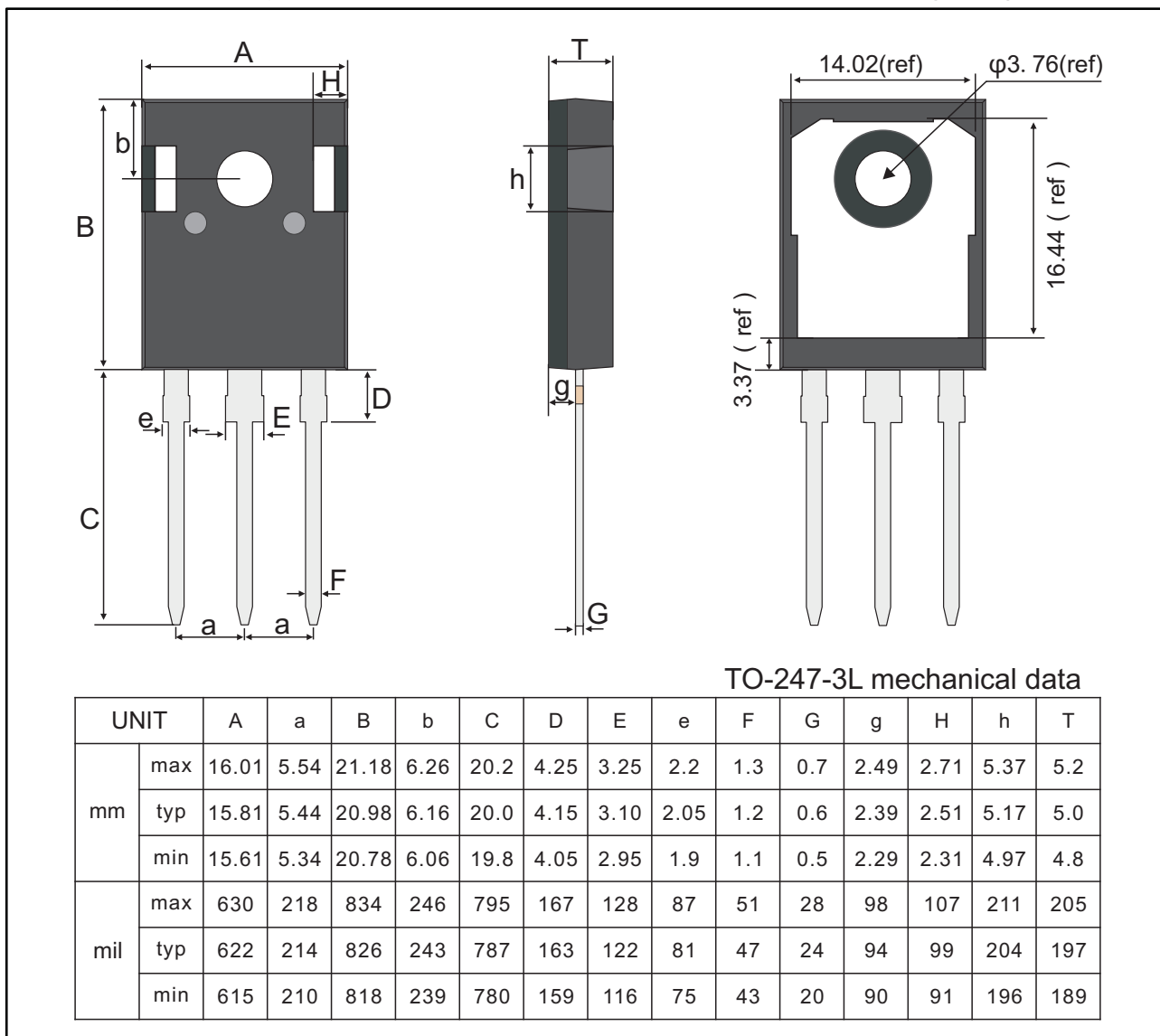
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



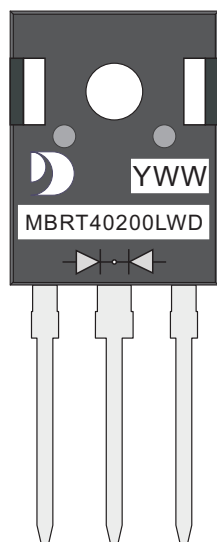


Package Outline
Through Hole Package ; 3 leads

TO-247-3L



Marking Diagram



YWW: Date Code
Y: Years(0~9)
WW: Week
MBRT40200LWD: Product name
(NOTE: The weekly code is based on the actual number of weeks in the calendar year.)



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