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

Features

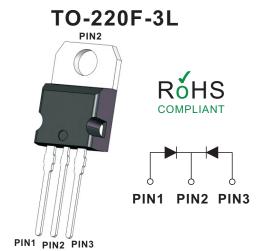
- · High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- · Mounting position: any

Mechanical data

• Case: TO-220-3L

Approx Weight: 2.04g (0.07oz)

• 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-220-3L	MBRT40200LCD	MBRT40200LCD	Tube	50 Pcs	2,500 Pcs	5,000 Pcs

Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Characteristics	Symbols	MBRT40200LCD	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	Io	20 40	Α
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	I _{FSM}	220	Α
Operating Junction Temperature Range	Tj	-55 ~ +150	°C
Storage Temperature Range	T _{stg}	-55 ~ +150	°C

Characteristics	Symbols	Test Conditions	Min	Тур	Max	Units
Breakdown voltage per leg	V_{BR}	I _R =0.1mA	200			V
Instantaneous forward voltage per leg	V _F	I _F =20A,TJ=25°C		0.84	0.95	V
Reverse current per leg	I _R	V _R =200V,TJ=25°C			0.1	mA

Fig.1 Typical Forward Current Derating Curve

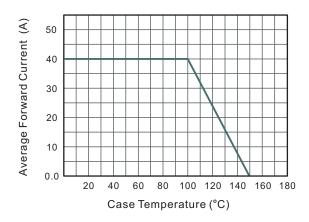


Fig.2 Typical Reverse Characteristics

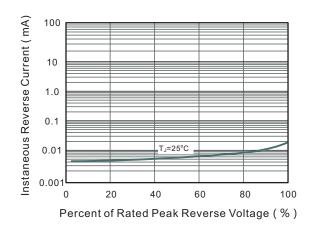


Fig.3 Typical Forward Characteristic(per leg)

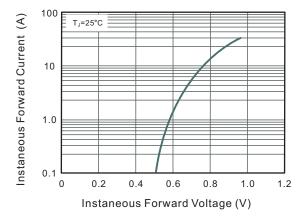
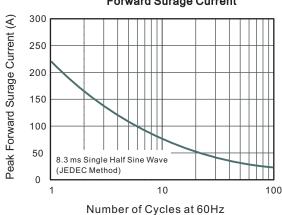
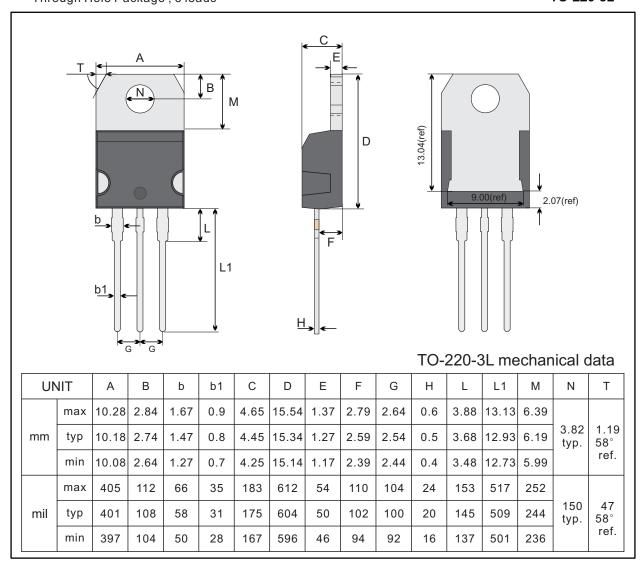
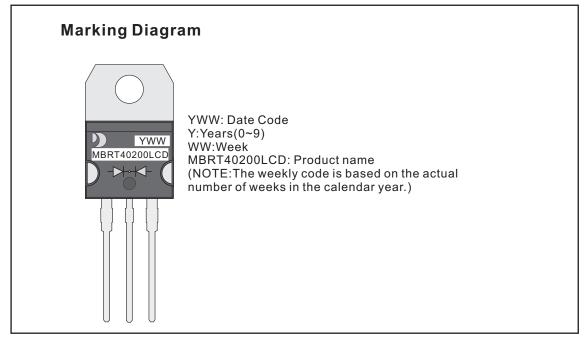


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



Package Outline
Through Hole Package ; 3 leads
TO-220-3L





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