

# MBR640F~MBR6200F

40 to 200 Volt

#### SCHOTTKY BARRIER RECTIFIERS

6 Ampere

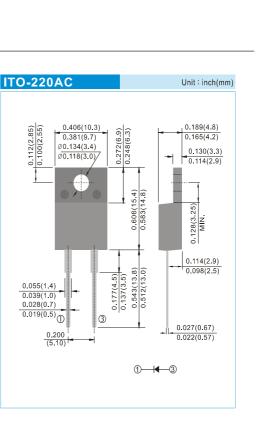
#### FEATURES

VOLTAGE

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- For use in low voltage, high frequency inverters free wheeling, and polarlity protection applications.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **MECHANICAL DATA**

- Case: ITO-220AC full molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- Weight: 0.055 ounces, 1.56 grams.



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

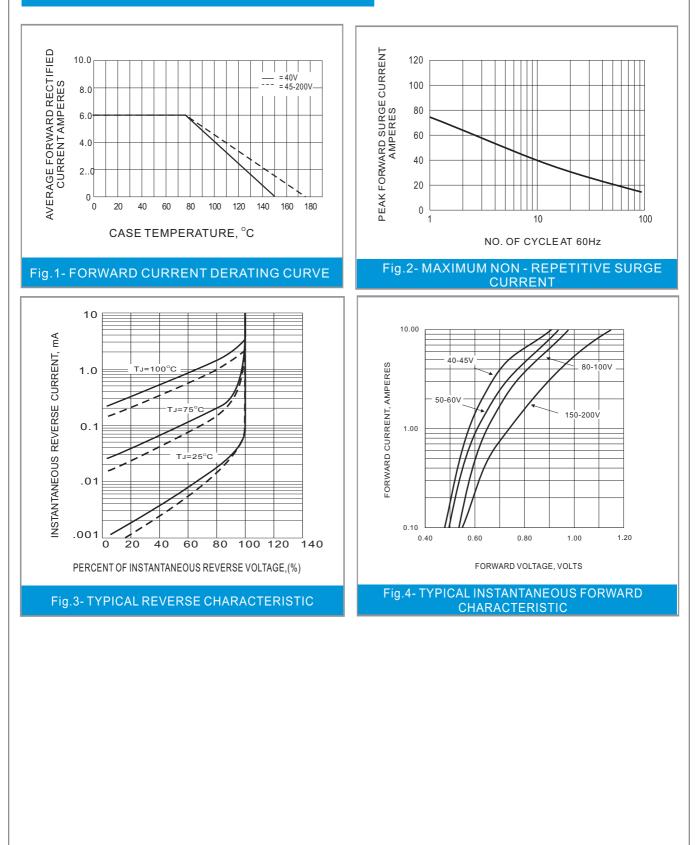
PARAMETER	SYMBOL	MBR640F	MBR645F	MBR650F	MBR660F	MBR680F	MBR690F	MBR6100F	MBR6150F	MBR6200F	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current	I <sub>F(AV)</sub>					6					Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>					75					A
Maximum Forward Voltage at 6A per leg	V <sub>F</sub>	0	.7	0.	75		0.8		0	.9	v
Maximum DC Reverse Current at Rated DC Blocking TJ=25°C Voltage TJ=100°C	I <sub>R</sub>					0.05 20					mA
Typical Thermal Resistance	$R_{_{ ext{ hetaJC}}}$					3					°C / W
Operating Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150				-65 t	o +175				°C

NOTES : Both Bonding and Chip structure are available.



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### **RATING AND CHARACTERISTIC CURVES**





MBR640F~MBI	R620	0F				
Part No_packing code_ MBR640F_T0_00001	_Versic	on				
For example :						
<b>BB500V-40 B2 00001</b>						
RB500V-40_R2_00001	- Se	rial number rsion code means HF				
	- Sei - Vei - Pad					
	- Sei - Vei - Pao - Pao	rsion code means HF cking size code means 13"	,	Versi	on Code	XXXXX
	- Sei - Vei - Pao - Pao	rsion code means HF cking size code means 13" cking type means T/R g Code XX				XXXXX 2 <sup>nd</sup> ~5 <sup>th</sup> Code
Part No. Packing type Tape and Ammunition Box (T/B)	- Sei - Vei - Pac - Pac	rsion code means HF cking size code means 13" cking type means T/R g Code XX				
Part No. Packing type Tape and Ammunition Box (T/B) Tape and Reel (T/R)	Sei     Sei     Vei     Pac     Packin;     1st Code	rsion code means HF cking size code means 13" cking type means T/R g Code XX Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd~5<sup>th</sup> Code</sup>
Part No. Packing type Tape and Ammunition Box (T/B) Tape and Reel	- Sei - Vei - Pac - Pac Packin 1 <sup>st</sup> Code A	rsion code means HF cking size code means 13" cking type means T/R g Code XX Packing size code N/A	2 <sup>nd</sup> Code 0	HF or RoHS HF	1 <sup>st</sup> Code 0	2 <sup>nd</sup> ~5 <sup>th</sup> Code serial number
Part No. Packing type Tape and Ammunition Box (T/B) Tape and Reel (T/R) Bulk Packing	- Sei - Vei - Paa - Paa Packin, 1 <sup>st</sup> Code A R	rsion code means HF cking size code means 13" cking type means T/R g Code XX Packing size code N/A 7"	2 <sup>nd</sup> Code 0 1	HF or RoHS HF	1 <sup>st</sup> Code 0	2 <sup>nd</sup> ~5 <sup>th</sup> Code serial number
Part No. Packing type Tape and Ammunition Box (T/B) Tape and Reel (T/R) Bulk Packing (B/P) Tube Packing	- Sei - Vei - Paa Packin 1 <sup>st</sup> Code A R B	rsion code means HF cking size code means 13" cking type means T/R g Code XX Packing size code N/A 7" 13"	2 <sup>nd</sup> Code 0 1 2	HF or RoHS HF	1 <sup>st</sup> Code 0	2 <sup>nd</sup> ~5 <sup>th</sup> Code serial number
Part No. Packing type Tape and Ammunition Box (T/B) Tape and Reel (T/R) Bulk Packing (B/P) Tube Packing (T/P) Tape and Reel (Right Oriented)	- Ser - Ver - Pac Packin 1st Code A R B T	rsion code means HF cking size code means 13" cking type means T/R g Code XX Packing size code N/A 7" 13" 26mm	2 <sup>nd</sup> Code 0 1 2 X	HF or RoHS HF	1 <sup>st</sup> Code 0	2 <sup>nd</sup> ~5 <sup>th</sup> Code serial number

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