

MBR640F~MBR6200F

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 to 200 Volt CURRENT	6 Amper	ITO-220AC	Unit : inch(mm)		
FEATURES					
 Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound. 		0.406(10.3) 0.406(10.3) 0.310(2.28) 0.310(2.39) 0.310(2.28) 0.310(2.39) 0.311(2.39) 0.313(2.39) 0.312(2.69) 0.313(3.39) 0.312(2.60) 0.313(3.39)	0.189(4.8) 0.165(4.2) 0.130(3.3) 0.114(2.9)		
 Low power loss, high efficiency. 					
 Low forward voltage, high current capability 		0.063(1.6)MAX	0.583(14.8) 0.583(14.8) MIN.		
 High surge capacity. 		53(1.6	0.128(3.2 MIN.		
 For use in low voltage, high frequency inverters 		0.0	0.1		
free wheeling, and polarlity protection applications.		0.055(1.4)	0.114(2.9)		
Lead free in compliance with EU RoHS 2011/65/EU directiv	e	0.039(1.0) 0.055(1.4) 0.039(1.0) 0.028(0.7) 0.028(0.7) 0.028(0.7)	(a; c); c); c); c); c); c); c); c); c); c)		
MECHANICAL DATA		0.019(0.5) 0.100(2.55)	0.027(0.67)		
Case: ITO-220AC full molded plastic package			0.022(0.57)		
• Terminals: Lead solderable per MIL-STD-750, Method 20	①—⊣∢—③				
Polarity: As marked.					
 Weight: 0.055 ounces, 1.56 grams. 					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

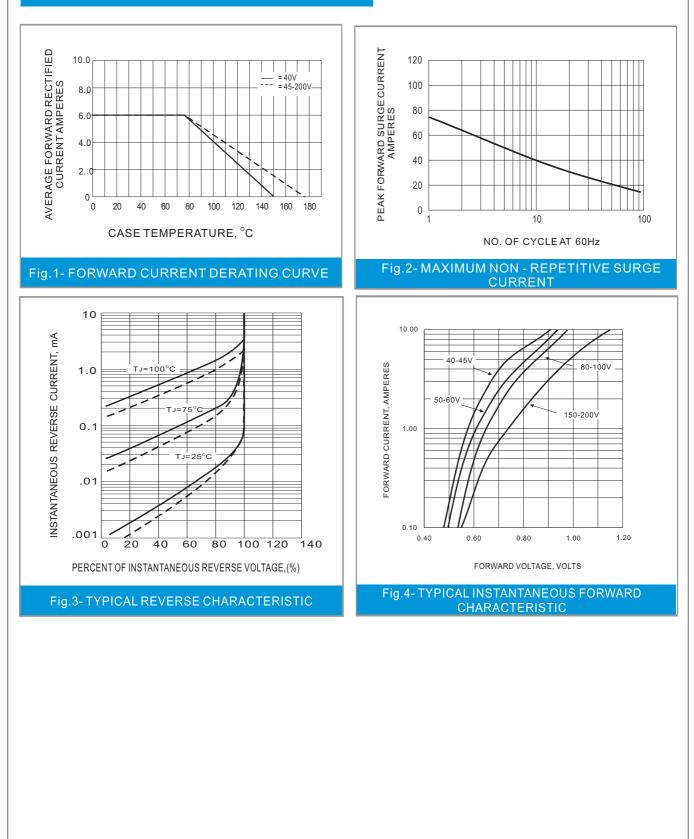
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	MBR640F	MBR645F	MBR650F	MBR660F	MBR680F	MBR690F	MBR6100F	MBR6150F	MBR6200F	UNITS
Maximum Recurrent Peak Reverse Voltage		40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V _{rms}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current		6							А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		75							A		
Maximum Forward Voltage at 6A per leg		0	.7	0.75 0.8			0.9		V		
	25°C 100°C I _R	0.05 20				mA					
Typical Thermal Resistance	$R_{_{ ext{ ext{ ext{ ext{ ext{ ext{ ext{ ext$	3			°C / W						
Operating Junction and Storage Temperature Range	T _J , T _{stg}	-55 to +150				-65 te	o +175				°C

NOTES : Both Bonding and Chip structure are available.



RATING AND CHARACTERISTIC CURVES







For example :

RB500V-40_R2_00001

Part No.

Serial number

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Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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