

## MBR140~MBR1200

#### SCHOTTKY BARRIER RECTIFIERS

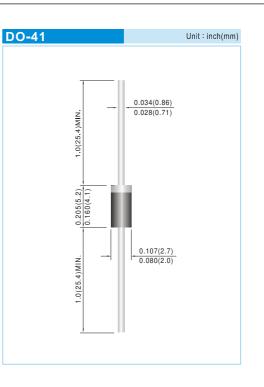
VOLTAGE 40~200 Volt

#### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- $\bullet$  For use in low voltage,high frequency inverters ,free wheeling , and polarity protection applications .
- Lead free in compliance with EU RoHS 2011/65/EU directive

#### **MECHANICALDATA**

- Case: DO-41 Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.0118 ounces, 0.336 grams



#### **MAXIMUM RATINGS**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

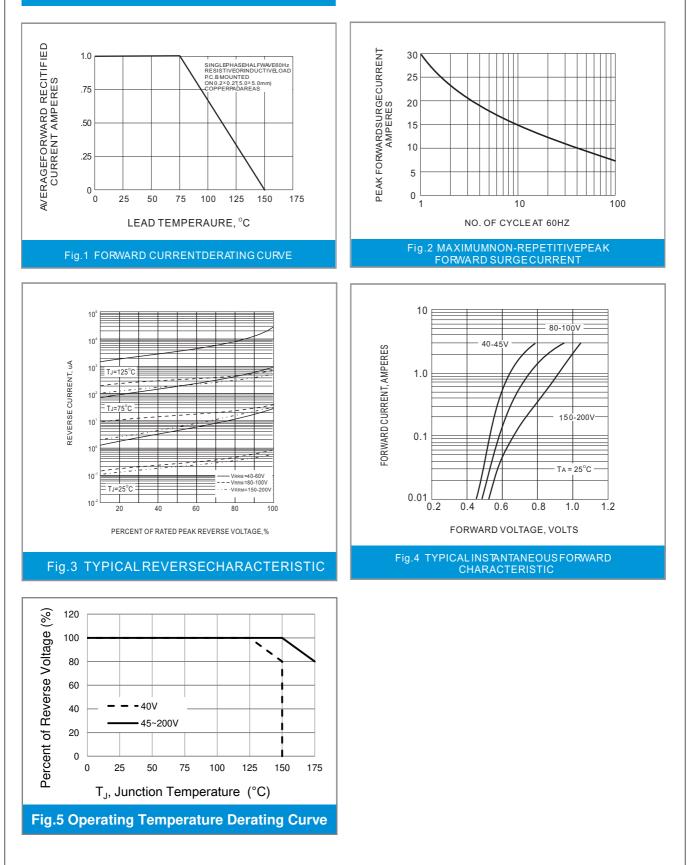
PARAMETER		SYMBOL	MBR140	MBR145	MBR150	MBR160	MBR180	MBR190	MBR1100	MBR1150	MBR1200	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	40	45	50	60	80	90	100	150	200	۷
Maximum RMS Voltage		VRMS	28	31.5	35	42	56	63	70	105	140	۷
Maximum DC Blocking Voltage		Vdc	40	45	50	60	80	90	100	150	200	۷
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length (See Figure 1)		l av	1.0					•	A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I FSM	30						A			
Maximum Forward Voltage at 1.0A		Vf	0.7	7 0.74 0.8 0.9		.9	۷					
Maximum D(, Reverse () urrent at Rated D(, Riocking Voltage	Тј=25°С Гј=100°С	l r	0.05 10						mA			
Typical Thermal Resistance		Roja	50					°C / W				
Operating Junction and Storage Temperature Rang		Tj,Tstg	-55 to +150 -65 to +175						°C			

1.0 Ampere



# MBR140~MBR1200

### RATING AND CHARACTERISTIC CURVES







# MBR140~MBR1200

### Part No\_packing code\_Version

MBR140\_AY\_00001 MBR140\_AY\_10001 MBR140\_B0\_00001 MBR140\_B0\_10001 MBR140\_R2\_00001 MBR140\_R2\_10001

## For example :

### RB500V-40 R2 00001

Part No.

Serial number

-

Version code means HF

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

Packing Code XX					Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code			
Tape and Ammunition Box (T/B)	A	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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