

Unit:inch(mm)

0.196(5.00)

0.163(4.16)

0.054(1.39)

0.045(1.15)

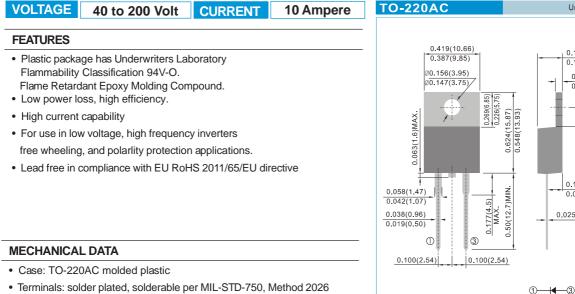
0 146(3 7) 0 130(3 3)

0.115(2.92) 0.080(2.03)

0.025(0.65)MAX.

## MBR1040~MBR10200

#### **10 AMPERES SCHOTTKY BARRIER RECTIFIERS**



- Polarity: As marked.
- Weight: 0.067 ounces, 1.89 grams.

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

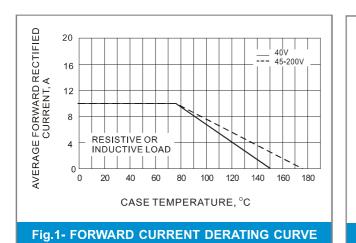
PARAMETER	SYMBOL	MBR1040	MBR1045	MBR1050	MBR1060	MBR1080	MBR1090	MBR10100	MBR10150	MBR10200	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	Vdc	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See fig.1)	IF(AV)	10						-	А		
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	Ifsm	150						A			
Maximum Forward Voltage at 10A, per leg	Vf	0.7		0.	0.75		0.8		0.9		V
Maximum DC Reverse Current at Rated DC T_=25°C Blocking Voltage T_=125°C	IR	0.05 20						mA			
Typical Thermal Resistance	Rejc	3				°C / W					
Operating and Storage Junction Temperature Range	TJ,TSTG	-55 to + 150	-65 to + 175				°C				

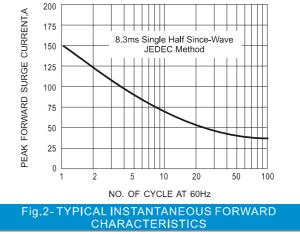
Notes :

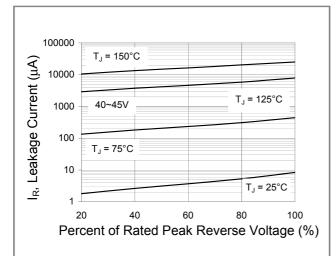
Both Bonding and Chip structure are available.



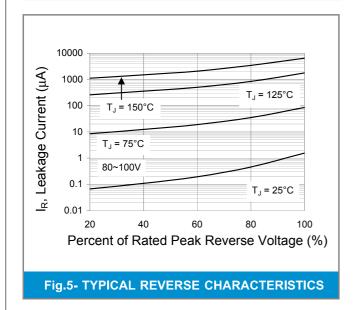
#### RATING AND CHARACTERISTIC CURVES







#### Fig.3- TYPICAL REVERSE CHARACTERISTICS



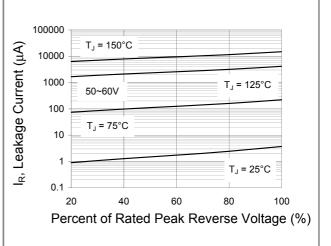
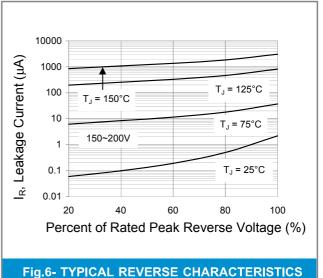
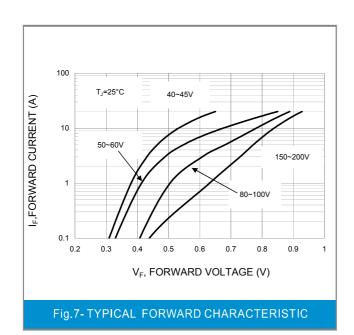


Fig.4- TYPICAL REVERSE CHARACTERISTICS











#### Part No\_packing code\_Version

MBR1040\_T0\_00001 MBR1040\_T0\_10001

#### For example :

RB500V-40\_R2\_00001

Т

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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