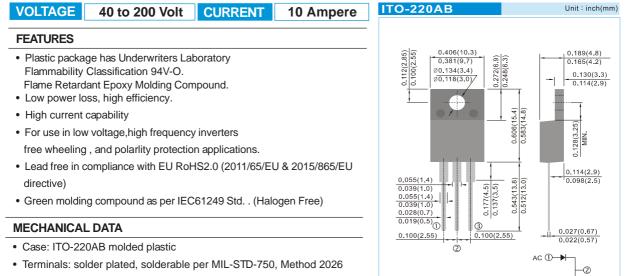


# MBR1040FCT~MBR10200FCT

## **10 AMPERE SCHOTTKY BARRIER RECTIFIERS**



- · Polarity: As marked.
- Weight: 0.056 ounces, 1.6 grams

# AC 3

### 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%

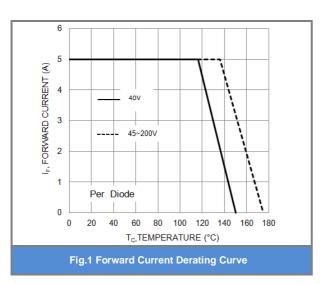
PARAMETER	SYMBOL	MBR1040FCT	MBR1045FCT	MBR1050FCT	MBR1060FCT	MBR1080FCT	MBR1090FCT	MBR10100FCT	MBR10150FCT	MBR10200FCT	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V <sub>rms</sub>	28	31.5	35	42	56	63	70	105	140	v
Maximum DC Blocking Voltage	Vdc	40	45	50	60	80	90	100	150	200	v
Maximum Average Forward Current (See fig.1)	F(AV)	10						A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	Ifsm	150							A		
Maximum Forward Voltage at 5A, per leg	Vf	0	.7	0.75			0.8		0.9		V
Maximum DC Reverse Current T <sub>J</sub> =25°C at Rated DC Blocking Voltage T <sub>J</sub> =125°C	Ir	0.05 20						mA			
Typical Thermal Resistance	Røjc	2							°C / W		
Operating and Storage Junction Temperature Range	Tj,Tstg	-55 to + 150 -65 to + 175							٥C		

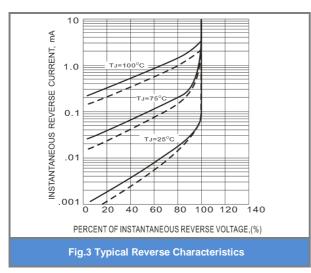
#### Notes :

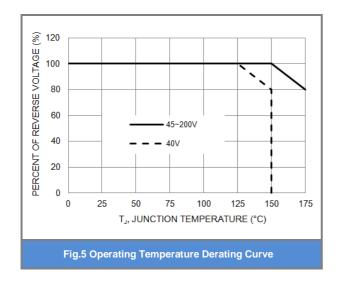
Both Bonding and Chip structure are available.

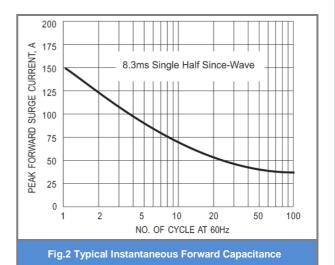


#### TYPICAL CHARACTERISTIC CURVES









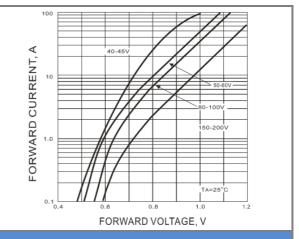


Fig.4 Typical Forward Characteristics



## Part No\_packing code\_Version

MBR1040FCT\_T0\_00001

## For example :

RB500V-40\_R2\_00001



• 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)	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					



# MBR1040FCT~MBR10200FCT

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