

MBR540 SERIES

VOLTAGE	40 to 200 Volt	CURRENT	5 Ampere	DO-201AD	Unit : inch(mm)
FEATURES					
 Epitaxial Con 	struction				0.052(1.3)
Guard Ring D	ie Construction for Tran	sient Protection		- NIN	0.048(1.2)
• Low Power Lo	oss, High Efficiency			1.0(25.4)MIN	
• High Surge C	apability			1.0(2	
High Current	Capability and Low Forv	vard Voltage Drop			
Surge Overloa	ad Rating to 150A Peak			1	
• For Use in Lo	w Voltage, High Freque	ency Inverters, Free	Wheeling,	5)	
and Polarity	Protection Applications			0.375(9.5) 0.285(7.2)	
Lead free in c	compliance with EU Rol-	IS 2011/65/EU dired	ctive	0.0	
MECHANICA	L DATA				0.210(5.3)
• Case: DO-20	1AD Molded plastic			z –	0.188(4.8)
• Terminals: Ax	kial leads, solderable pe	er MIL-STD-750,Me	ethod 2026	.0(25.4)MIN	
Polarity: Colo	r band denotes cathode	e 📕		1.0(2	
• Weight: 0.040	02 ounces, 1.142 grams	;			
		0 1			

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

PARAMETER			MBR540	MBR545	MBR550	MBR560	MBR580	MBR590	MBR5100	MBR5150	MBR5200	UNITS
Maximum Recurrent Peak Reverse Voltage			40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage			28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage			40	45	50	60	80	90	100	150	200	V
Average Rectified Output Current (See Figure 1)			5							А		
Non-Repetitive Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load			150							A		
Power Dissipation			2.5						W			
Forward Voltage at 5A (Notes 3)			0.	0.7 0.74 0.8 0.9			.9	V				
	T _J =25°C		0.05						mA			
Maximum DC Reverse Current at Rated DC Blocking Voltage (Notes 4)	T _J =100°C	I _R		10			-					mA
	T_=125°C		-			5		1		mA		
Typical Thermal Resistance (Notes 2) (Notes 1) (Notes 1)		R _{eja} R _{ejl} R _{ejc}	50 15 12				°C / W					
Typical Junction Capacitance (V _R =4V,f=1MHz)			250 150				рF					
Operating Junction and Storage Temperature Range			-55 to +150	-65 to +150					°C			

NOTES :

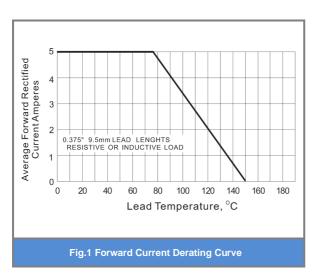
1. Measured at ambient temperature at a distance of 9.5mm from the case

2. Minimum Pad Area

3. Pulse test : 300 μs pulse width, 1% duty cycle

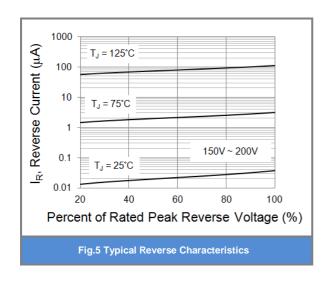
4.Short duration pulse test used to minimize self-heating effect.

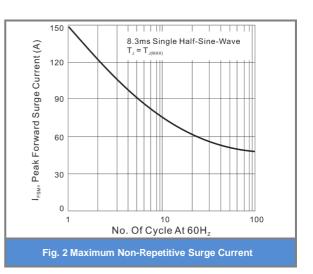




10000 T_J = 125°C Reverse Current (µA) 1000 T_J = 75°C 100 10 T_J = 25°C 1 40V~60V <u>ŕ</u> 0.1 20 40 60 80 100 Percent of Rated Peak Reverse Voltage (%)

Fig.3 Typical Reverse Characteristics





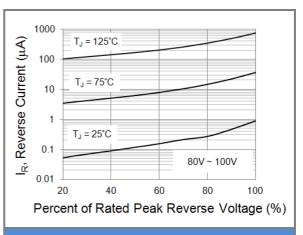
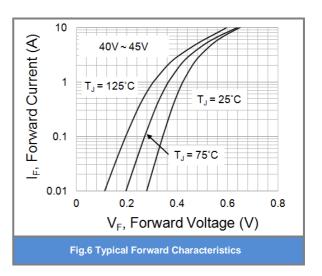


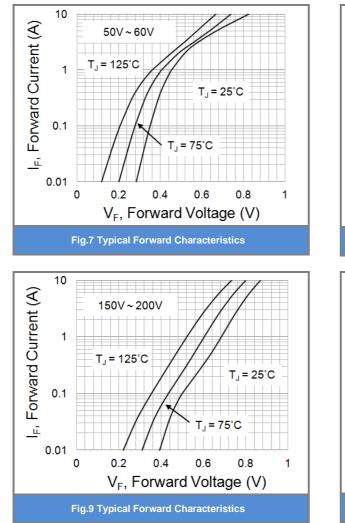
Fig.4 Typical Reverse Characteristics

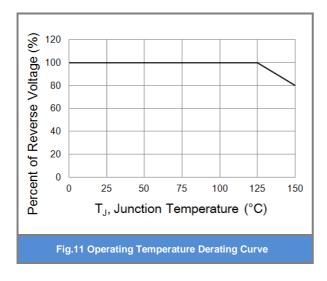


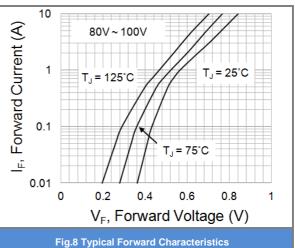
TYPICAL CHARACTERISTIC CURVES

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MBR540 SERIES







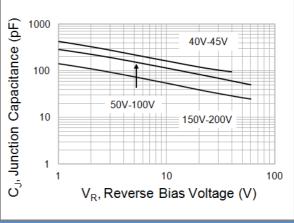


Fig.10 Typical Junction Capacitance





MBR540 SERIES

Part No_packing code_Version

MBR540_AY_00001 MBR540_AY_10001 MBR540_B0_00001 MBR540_B0_10001 MBR540_R2_00001 MBR540_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 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)	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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