



SCHOTTKY BARRIER RECTIFIERS

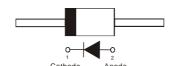
VOLTAGE 40 to 200 Volt CURRENT 3 Ampere

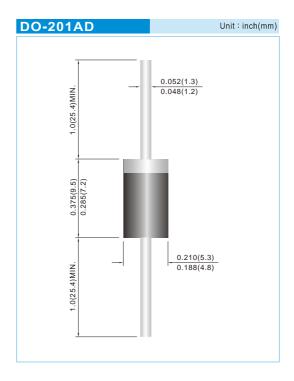
FEATURES

- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 80A Peak
- 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-201AD Molded plastic
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Weight: 0.0403 ounces, 1.142 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.

PARAMETER	SYMBOL	MBR340	MBR345	MBR350	MBR360	MBR380	MBR390	MBR3100	MBR3150	MBR3200	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	V _{DC}	40	45	50	60	80	90	100	150	200	V
Average Rectified Output Current (See Figure 1)	I _o	3.0						А			
Non-Repetitive Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80						А			
Forward Voltage at 3.0A (Note 3)	V _F	0.70 0.74		74	0.80		0.9		V		
Peak Reverse Current at Rated DC $T_j=25^{\circ}C$ Blocking Voltage $T_j=100^{\circ}C$	I _R	0.05 10						mA			
Typical Thermal Resistance (Note 2) (Note 1) (Note 1)	$egin{array}{c} {\sf R}_{_{ heta {\sf JC}}} \ {\sf R}_{_{ heta {\sf JL}}} \end{array}$	50 12 15						°C / W			
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-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 : $300\mu s$ pulse width , 1% duty cycle





RATING AND CHARACTERISTIC CURVES

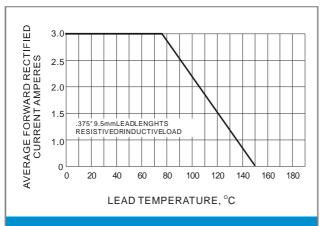


Fig.1 FORWARD CURRENT DERATING CURVE

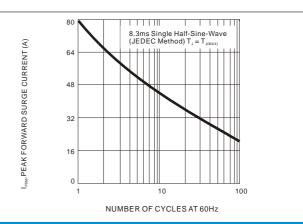


Fig.2 MAXIMUM NON-REPETITIVEPEAKFORWARD SURGE CURRENT

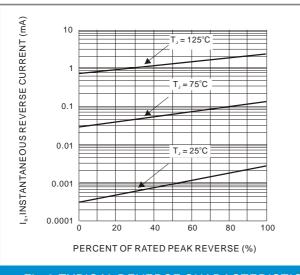


Fig.3 TYPICAL REVERSE CHARACTERISTIC

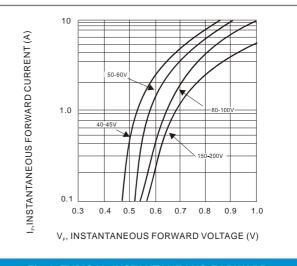
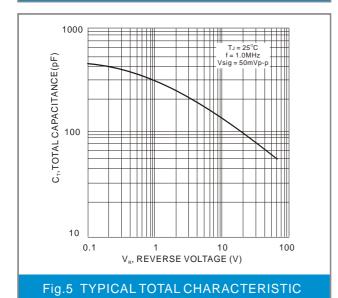
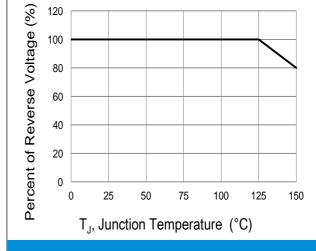


Fig.4 TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTIC











Part No_packing code_Version

MBR340_AY_00001

MBR340_AY_10001

MBR340_B0_00001

MBR340_B0_10001

MBR340_R2_00001

MBR340_R2_10001

For example:



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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