




**SPECIFICATION SHEET**

<b>SPECIFICATION SHEET NO.</b>	N0626-DB20700000L20A
<b>DATE</b>	June 26, 2021
<b>REVISION</b>	A0
<b>DESCRIPTION</b>	<p>Thru Hole Single Phase Glass Passivated Bridge Rectifier, DB Series,            DB207 Type, 4 Pins,            Reverse Voltage 1000V Max. Forward Current 2.0A Max.            Operating Temp. Range -55°C ~+150°C,            Package in Tube, 2500pcs/Box.            RoHS/RoHS III compliant</p>
<b>CUSTOMER</b>	
<b>CUSTOMER PART NUMBER</b>	
<b>CROSS REF. PART NUMBER</b>	
<b>ORIGINAL PART NUMBER</b>	MDD DB207
<b>PART CODE</b>	DB20700000L20A

<b>VENDOR APPROVE</b>			
Issued/Checked/Approved			
DATE: June 26, 2021			

<b>CUSTOMER APPROVE</b>	
DATE:	

**THRU HOLE BRIDGE RECTIFER DB SERIES**



**MAIN FEATURE**

- Reliable low cost construction utilizing molded plastic technique
- Small size simple installation
- High forward surge current capability
- High temperature soldering guaranteed.
- 260 °C/10 seconds, at 5 lbs (2.3kg) tension

**APPLICATION**

- For printed circuit board

**RFQ**

[Request For Quotation](#)

**PART CODE GUIDE**

<b>DB</b>	<b>20700000</b>	<b>L</b>	<b>20A</b>
1	2	3	4

- 1) **DB:** Thru Hole Single Phase Glass Passivated Bridge Rectifier, 4 Pins , DB Series
- 2) **20700000:** Type code for original part number DB207
- 3) **L:** Package code, In Tube, 2500pcs/box
- 4) **20A:** Specification code for Reverse Voltage 1000V Max. Forward Current 2.0A Max.

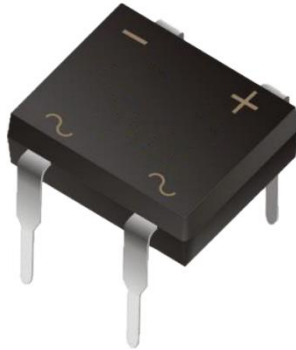
**MORE ITEMS AVAILABLE**

DB10100000L105	DB10200000L110	DB10300000L120	DB10400000L140	DB10500000L160
DB10600000L180	DB10700000L10A			
DB20100000L205	DB20200000L210	DB20300000L220	DB20400000L240	DB20500000L260
DB20600000L280	<b>DB20700000L20A</b>			

**THRU HOLE BRIDGE RECTIFIER DB TYPE**

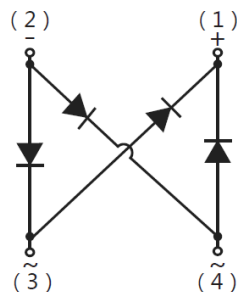
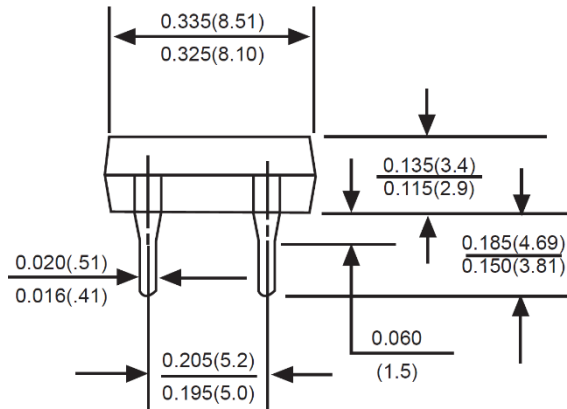
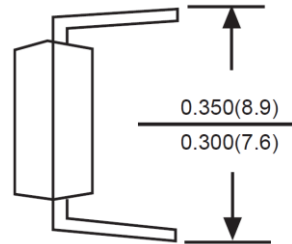
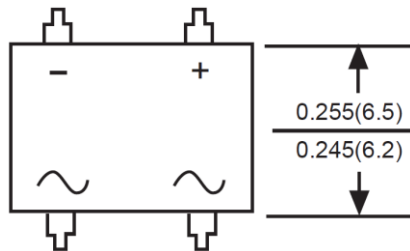
**DIMENSION (Unit: Inch/mm)**

Image for reference



Marking: DB207

DB



**THRU HOLE BRIDGE RECTIFER DB SERIES**
**MECHANICAL DATA**

Case	Terminals	Polarity	Mounting Position	Weight per piece
JEDEC DB molded plastic body	Solder plated, Solderable per MIL-STD-750, Method 2026	Polarity symbol marking on case	Any	0.020 Ounce, 0.40grams

**MAX. RATING & CHARACTERISTICS**

Parameter	SYMBOLS	VALUE			UNITS
		Min.	Typical	Max.	
Repetitive peak reverse voltage	V <sub>RRM</sub>			1000	Volts
RMS voltage	V <sub>RMS</sub>			700	Volts
DC blocking voltage	V <sub>DC</sub>			1000	Volts
Average forward output rectified current at T <sub>c</sub> = 40°C	I <sub>FAV</sub>			2.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>		60		A
Instantaneous forward voltage at 1.0A	V <sub>F</sub>			1.1	Volts
DC reverse current at rated DC blocking voltage	I <sub>R</sub>			10	μA
				500	μA
Junction capacitance	C <sub>J</sub>		-		pF
Thermal resistance	R <sub>QJA</sub>		-		°C/W
Operating junction temperature range	T <sub>J</sub>	-55		+150	
Storage temperature range	T <sub>STG</sub>	-55		+150	°C

**Note**

1. Ratings at 25 C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.
2. Unit mounted on P.C. board with 0.51"\*0.51"(13.0\*13.0mm) copper pads

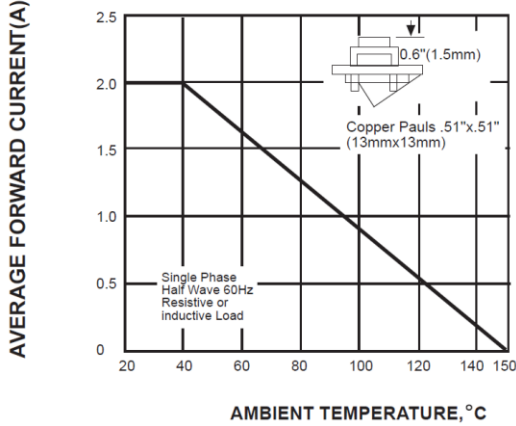
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**RELIABILITY**

Number	Experiment Items	Experiment Method And Conditions	Reference Documents
1	Solder Resistance Test	Test 260°C± 5°C for 10 ± 2 sec. Immerse body into solder 1/16" ± 1/32"	MIL-STD-750D METHOD-2031.2
2	Solderability Test	230°C ±5°C for 5 sec.	MIL-STD-750D METHOD-2026.1 0
3	Pull Test	1 kg in axial lead direction for 10 sec.	MIL-STD-750D METHOD-2036.4
4	Bend Test	0.5Kg Weight Applied To Each Lead, Bending Arcs 90 °C ± 5 °C For 3 Times	MIL-STD-750D METHOD-2036.4
5	High Temperature Reverse Bias Test	TA=100°C for 1000 Hours at VR=80% Rated VR	MIL-STD-750D METHOD-1038.4
6	Forward Operation Life Test	TA=25°C Rated Average Rectified Current	MIL-STD-750D METHOD-1027.3
7	Intermittent Operation Life Test	On state: 5 min with rated IRMS Power Off state: 5 min with Cool Forced Air. On and off for 1000 cycles.	MIL-STD-750D METHOD-1036.3
8	Pressure Cooker Test	15 PSIG, TA=121°C, 4 hours	MIL-S-19500 APPENOIXC
9	Temperature Cycling Test	-55°C~+125°C; 30 Minutes For Dwelled Time 5 minutes for transferred time. Total: 10 cycles.	MIL-STD-750D METHOD-1051.7
10	Thermal Shock Test	0°C for 5 minutes., 100°C for 5minutes, Total: 10 cycles	MIL-STD-750D METHOD-1056.7
11	Forward Surge Test	8.3ms Single Sale Sine-wave One Surge.	MIL-STD-750D METHOD-4066.4
12	Humidity Test	TA=65°C, RH=98% for 1000 hours.	MIL-STD-750D METHOD-1021.3
13	High Temperature Storage life Test	150°C for 1000 Hours	MIL-STD-750D METHOD-1031.5

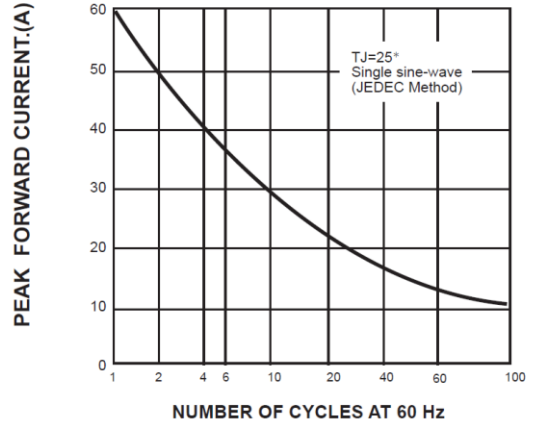
**THRU HOLE BRIDGE RECTIFIER DB SERIES**

**RATINGS AND CHARACTERISTIC CURVES (For Reference Only)**

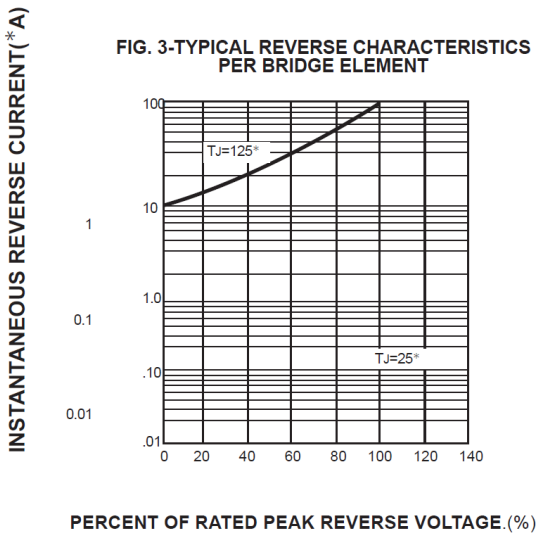
**FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



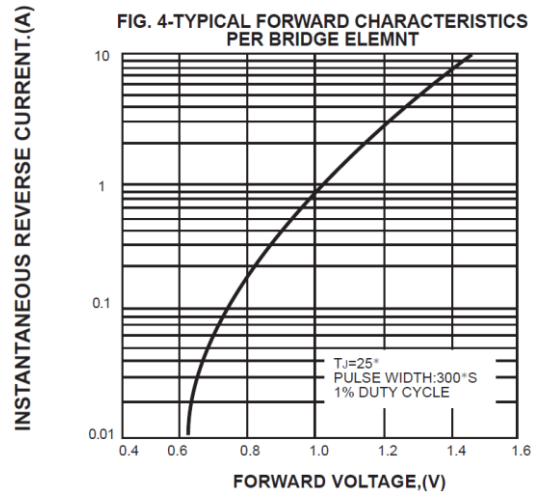
**FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



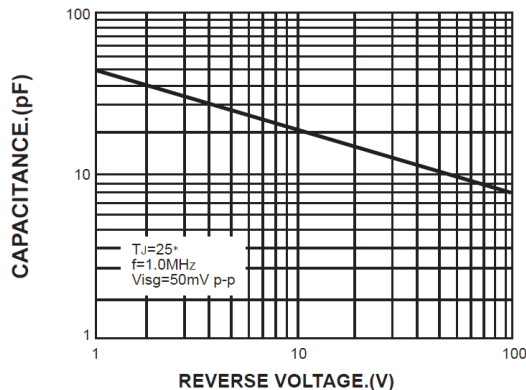
**FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT**



**FIG. 3- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT**



**THRU HOLE BRIDGE RECTIFER DB SERIES**

**PACKAGE**

Case Code	Qty. per Tube (pcs)	Qty. Per Box (pcs)	Inner Box L*W*H (mm)	Carton size L*W*H (mm)	Qty. Per Carton (pcs)	G. W (kg)
DB	50	2500	450*135*70	460*300*165	10,000	6.9

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