



Micro Commercial Components

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 20736 Marilla Street Chatsworth
 CA 91311
 Phone: (818) 701-4933
 Fax: (818) 701-4939

BR805DLC THRU BR810DLC

Features

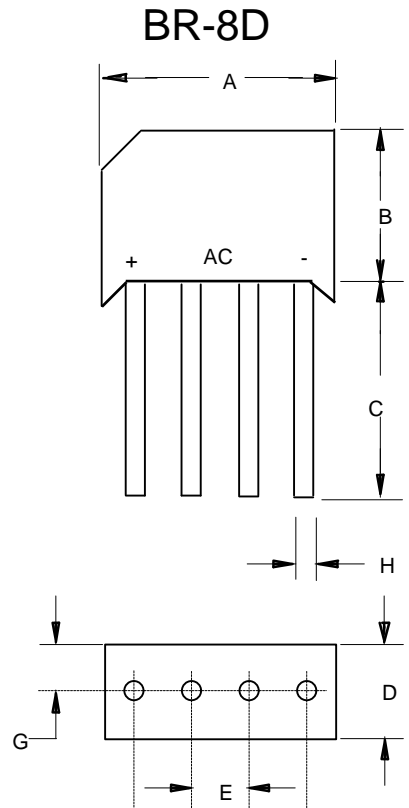
- Any Mounting Position
- Surge Rating Of 50 Amps
- Low Forward Voltage Drop
- UL Recognized File # E165989
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

**2 Amp Single Phase
 Bridge Rectifier
 50 to 1000 Volts**

Maximum Ratings

- Operating Junction Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
BR805DLC	BR805DL	50V	35V	50V
BR81DLC	BR81DL	100V	70V	100V
BR82DLC	BR82DL	200V	140V	200V
BR84DLC	BR84DL	400V	280V	400V
BR86DLC	BR86DL	600V	420V	600V
BR88DLC	BR88DL	800V	560V	800V
BR810DLC	BR810DL	1000V	700V	1000V



Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	2.0A	$T_C = 25^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	50A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.1V	$I_{FM} = 1.0\text{A}$ per element; $T_A = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 μA 1.0mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

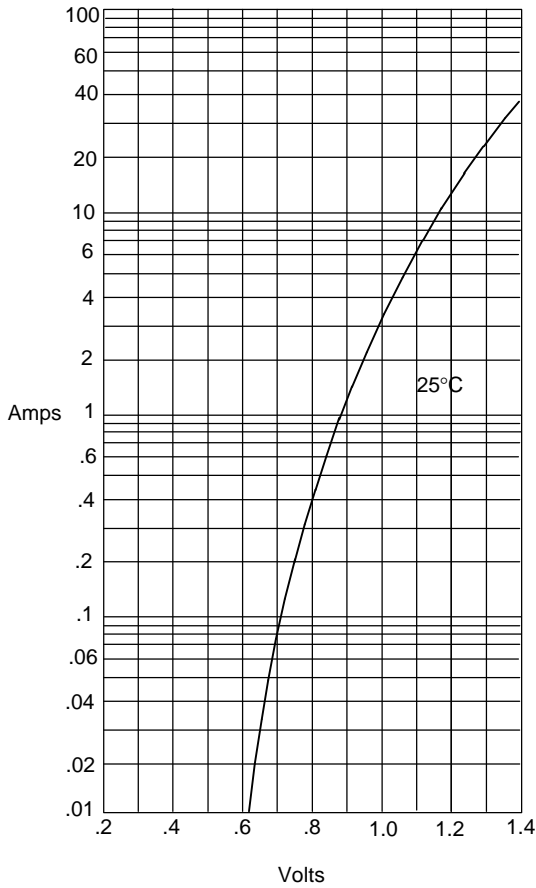
*Pulse test: Pulse width 300 μsec , Duty cycle 1%

DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.689	.728	17.50	18.50	
B	.510	.549	13.00	14.00	
C	.937	.976	24.00	25.00	
D	.250	.260	5.50	6.50	
E	.140	.160	3.60	4.10	3PL/TYP
G	.120	.130	3.10	3.30	
H	.028	.032	0.70	0.80	\emptyset

BR805DLC thru BR810DLC

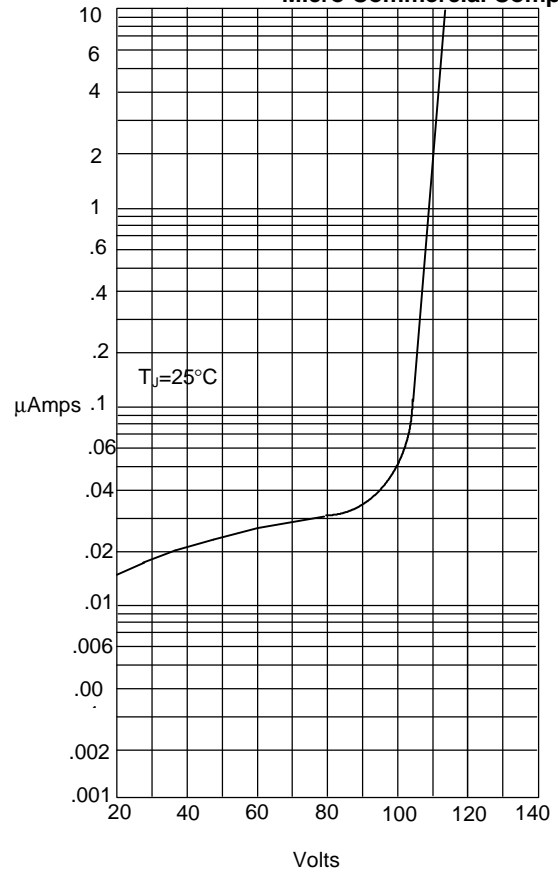


Figure 1
Typical Forward Characteristics



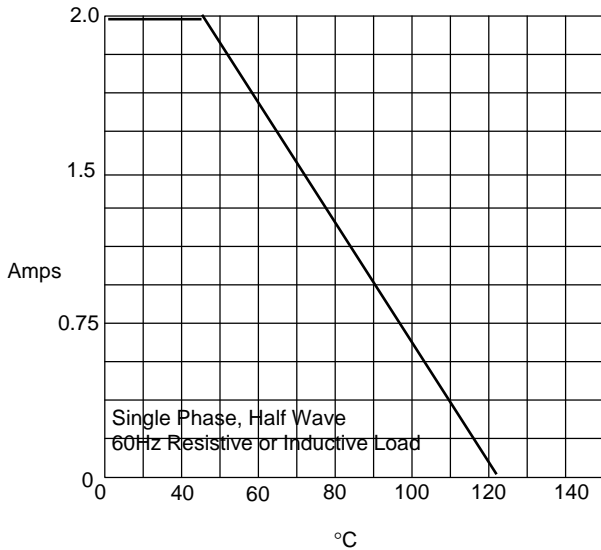
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics
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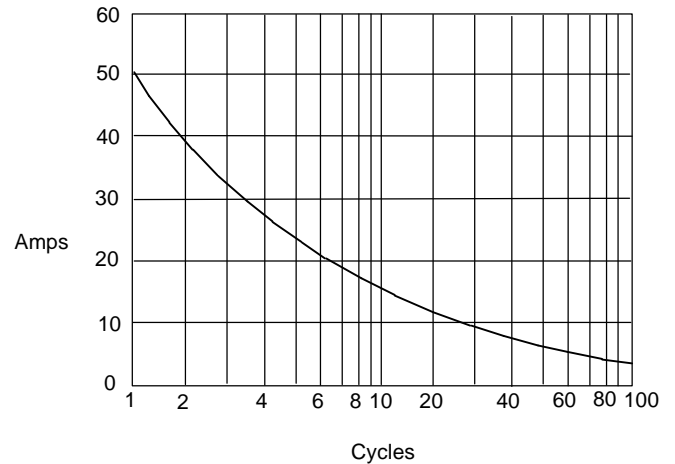
Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 4
Maximum Non-Repetitive Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles



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