



Micro Commercial Components

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# 1N5400-BC01 THRU 1N5408-BC01

## 3 Amp Rectifier 50 to 1000 Volts

### Features

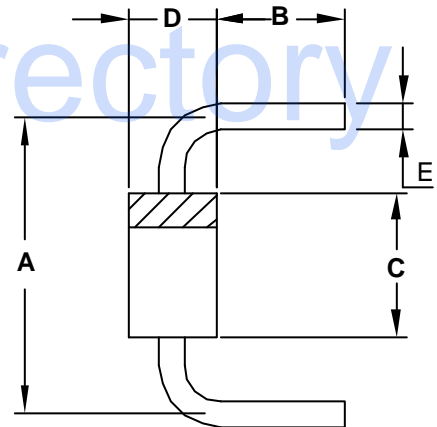
- Low Current Leakage
- Metalurgically Bonded Construction
- Low Forward Voltage
- High Current Capability

### Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 30°C/W Junction To Lead

MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N5400-BC01	---	50V	35V	50V
1N5401-BC01	---	100V	70V	100V
1N5402-BC01	---	200V	140V	200V
1N5404-BC01	---	400V	280V	400V
1N5406-BC01	---	600V	420V	600V
1N5407-BC01	---	800V	560V	800V
1N5408-BC01	---	1000V	700V	1000V

### DO-201AD



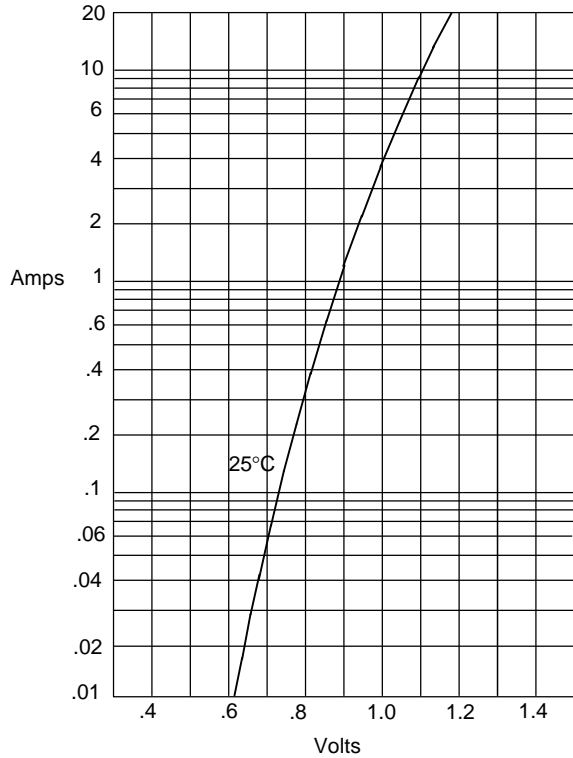
### Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	3.0A	$T_A = 105^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	200A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	$V_F$	1.0V	$I_{FM} = 3.0A;$ $T_J = 25^\circ\text{C}^*$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0µA 50µA	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$
Typical Junction Capacitance	$C_J$	40pF	Measured at 1.0MHz, $V_R=4.0V$

\*Pulse test: Pulse width 300 µsec, Duty cycle 2%

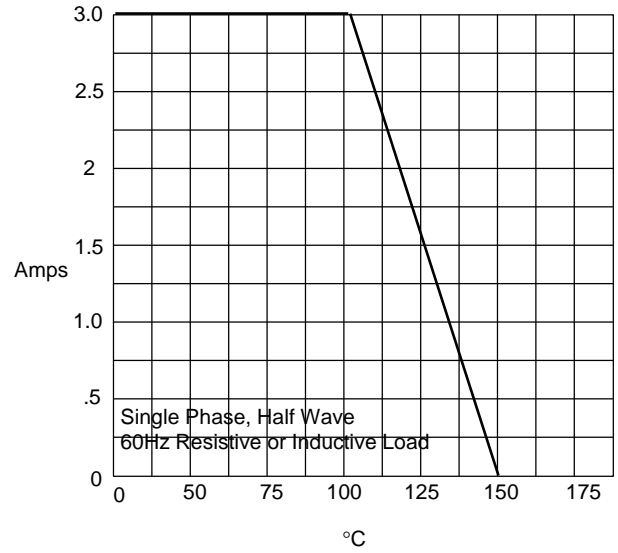
DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	.590	.610	15.0	15.5	
B	.122	.142	3.10	3.60	
C	.280	.370	7.20	9.50	
D	.188	.250	4.80	6.40	
E	.048	.052	1.20	1.30	

Figure 1  
Typical Forward Characteristics



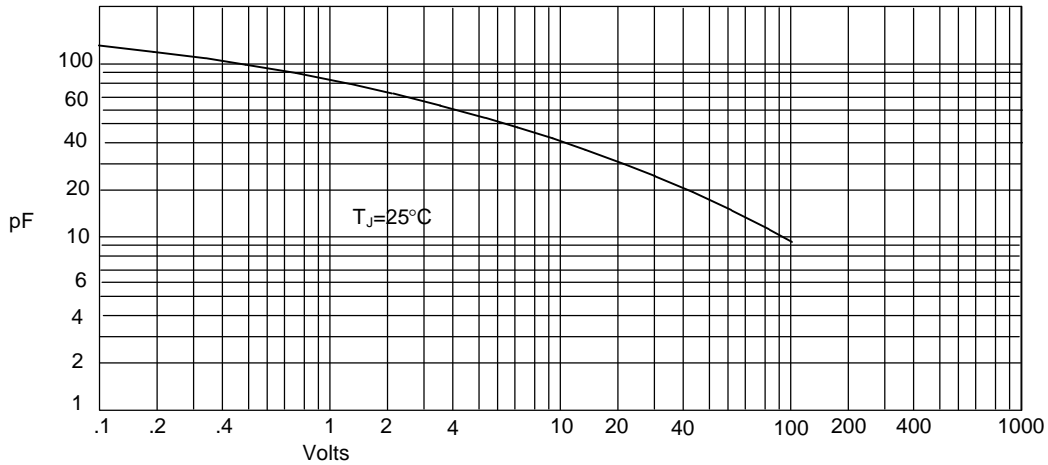
Instantaneous Forward Current - Amperes *versus*  
Instantaneous Forward Voltage - Volts

Figure 2  
Forward Derating Curve



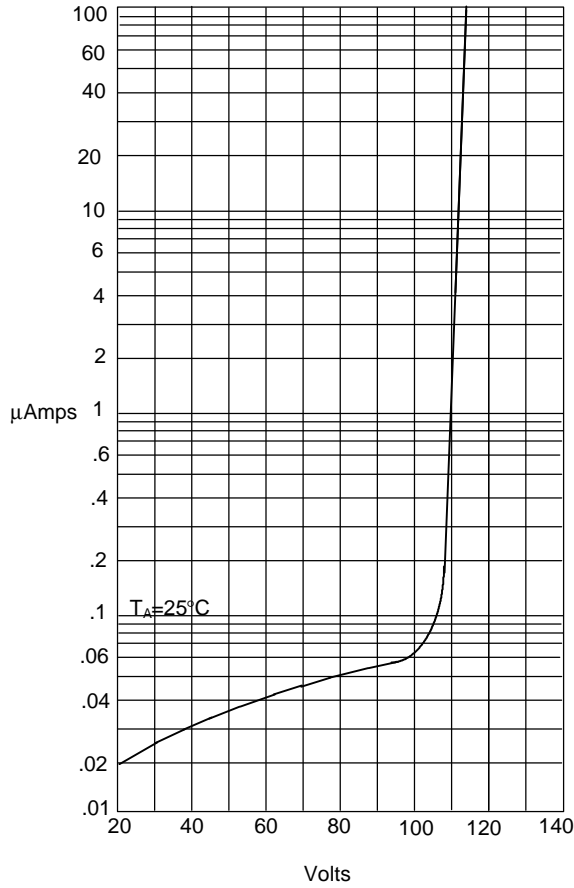
Average Forward Rectified Current - Amperes *versus*  
Ambient Temperature - °C

Figure 3  
Junction Capacitance



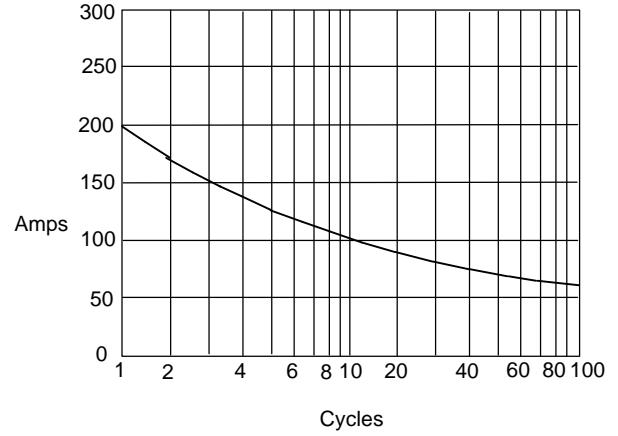
Junction Capacitance - pF *versus*  
Reverse Voltage - Volts

Figure 4  
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus  
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5  
Peak Forward Surge Current



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