

M·C·C·

Micro Commercial Components
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**1N1183A
THRU
1N1190A**

Features

- High Surge Capability
- Low Leakage
- Low Forward Voltage Drop
- High Current Capability

**40 Amp
Rectifier
50 to 600 Volts**

Maximum Ratings

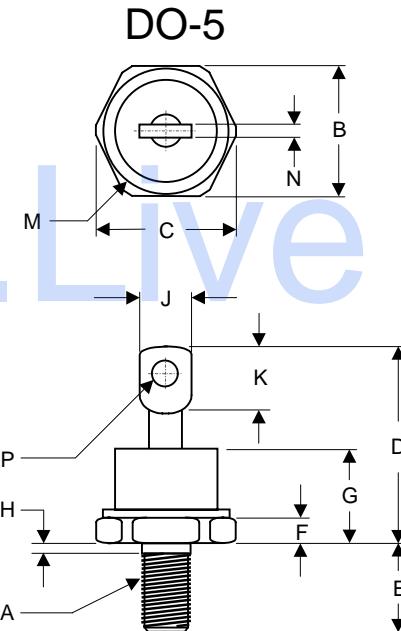
- Operating Temperature: -65°C to +175°C
- Storage Temperature: -65°C to +175°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
1N1183A	50V	35V	50V
1N1184A	100V	70V	100V
1N1186A	200V	40V	200V
1N1188A	400V	280V	400V
1N1190A	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	40 A	$T_L = 150^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	800A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.30V	$I_{FM} = 40\text{A}; T_A = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	5000 μA	$T_A = 25^\circ\text{C}$

*Pulse Test: Pulse Width 300 μsec , Duty Cycle 1%

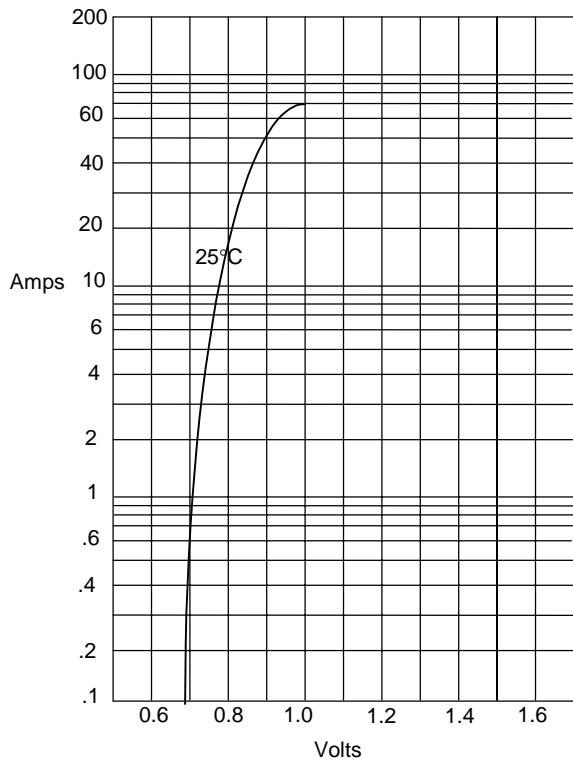


DIM	DIMENSIONS				NOTE
	INCH ES		MM		
	MIN	MAX	Standard	MIN	MAX
A	1/4-28 Threads				
B	.669	.687		17.19	17.44
C	----	.794		----	20.16
D	----	1.000		----	25.40
E	.422	.453		10.72	11.50
F	.115	.200		2.93	5.08
G	----	.450		----	11.43
H	.220	.249		5.58	6.32
J	----	.375		----	9.52
K	.156	----		3.96	----
M	----	.667		----	16.94
N	----	.080		----	2.03
P	.140	.175		3.56	4.45

1N1183A thru 1N1190A

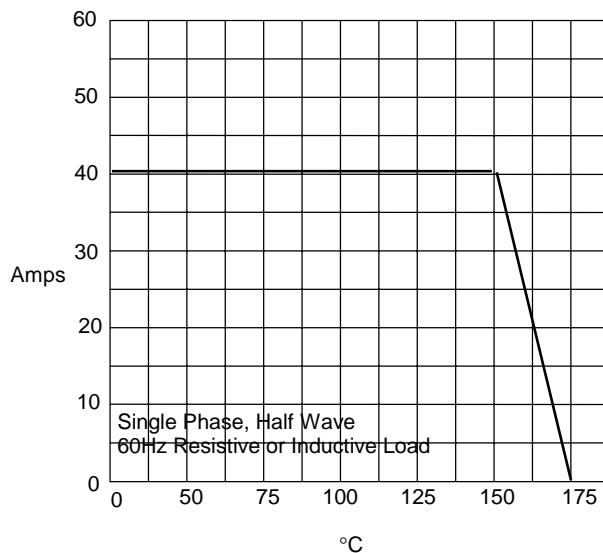
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Figure 1
Typical Forward Characteristics



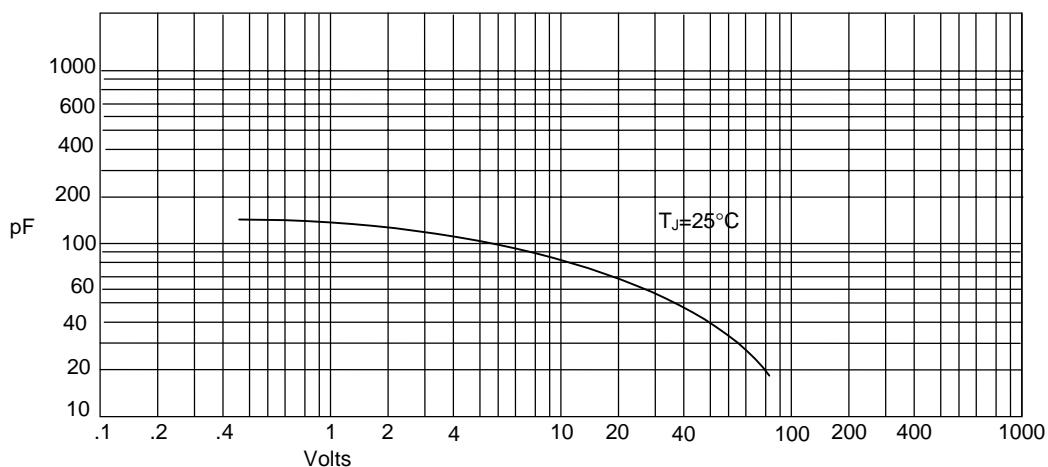
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

Figure 3
Junction Capacitance

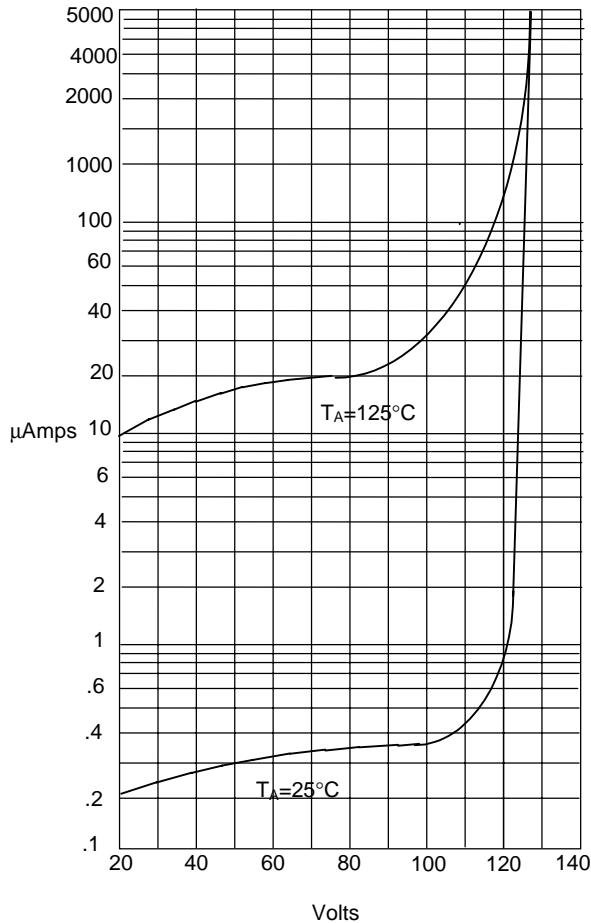


Junction Capacitance - pF versus
Reverse Voltage - Volts

1N1183A thru 1N1190A

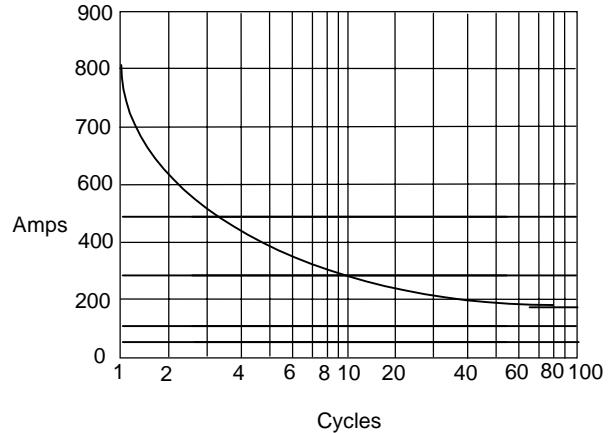
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Figure 4
Typical Reverse Characteristics



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