



Micro Commercial Corp.
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Features

- Low Power Loss , High Efficiency
- Low Forward Voltage , High Current Capability
- High Surge Capacity
- Super Fast Recovery Times , High Voltage

Maximum Ratings

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

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR805F	MUR805F	50V	35V	50V
MUR810F	MUR810F	100V	70V	100V
MUR820F	MUR820F	200V	140V	200V
MUR840F	MUR840F	400V	320V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

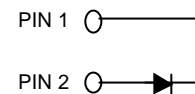
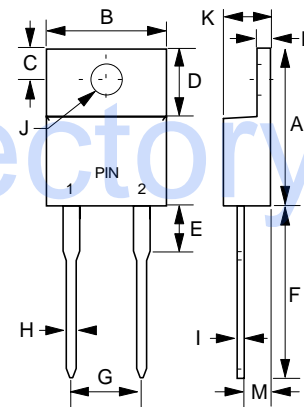
Average Forward Current	$I_{F(AV)}$	8.0A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	125A	8.3 ms, half sine
Maximum Forward Voltage Drop Per Element 805F-820F 840F	V_F	0.95V 1.30V	$I_{FM} = 8\text{ A}$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 uA 500uA	$T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$
Maximum Reverse Recovery Time 805F-820F 840F	T_{rr}	35ns 50ns	$I_F=0.5\text{A}, I_R=1.0\text{A},$ $I_{rr}=0.25\text{A}$

*Pulse test: Pulse width 200 μsec , Duty cycle 1%

MUR805F THRU MUR840F

8 Amp Isolation Super Fast Recovery Rectifier 50 to 400 Volts

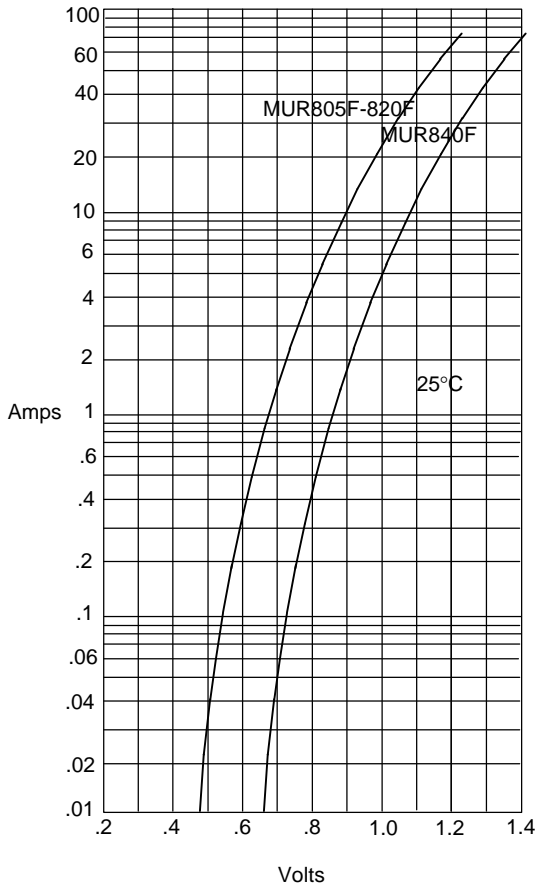
ITO-220AC



DIM	INCHES				MM	
	MIN	MAX	MIN	MAX	ØT	
A	.583	.606	14.80	15.40		
B	---	.406	---	10.30		
C	.100	.112	2.55	2.85		
D	.248	.272	6.30	6.90		
E	---	.161	---	4.10		
F	.512	.543	13.00	13.80		
G	---	.200	---	5.10		
H	---	.035	---	0.90		
I	---	.032	---	0.80		
J	.118	.134	3.00	3.40		∅
K	---	.189	---	4.80		
L	---	.123	---	3.10		
M	.098	.114	2.50	2.90		

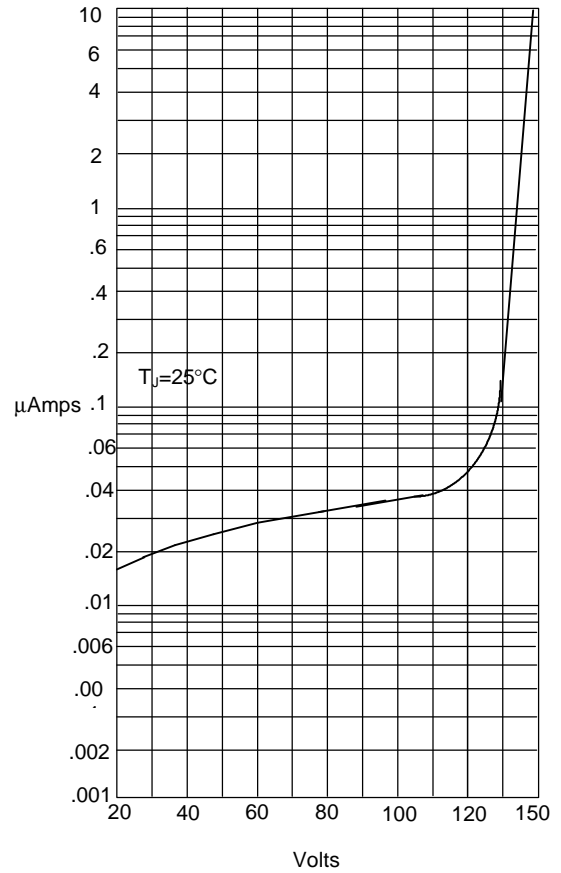
MUR805F thru MUR840F

Figure 1
Typical Forward Characteristics



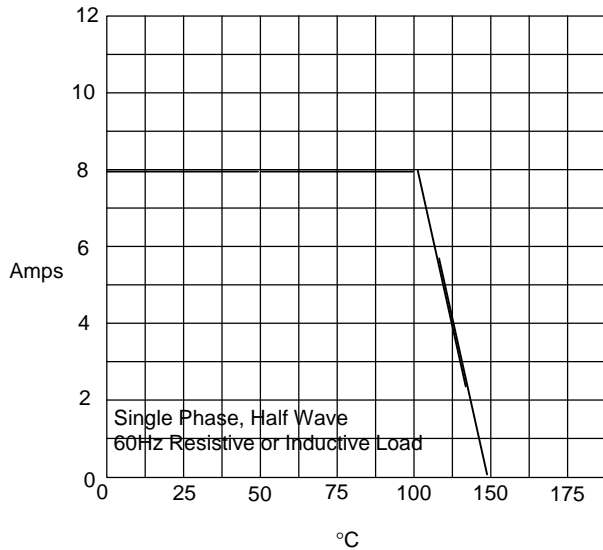
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



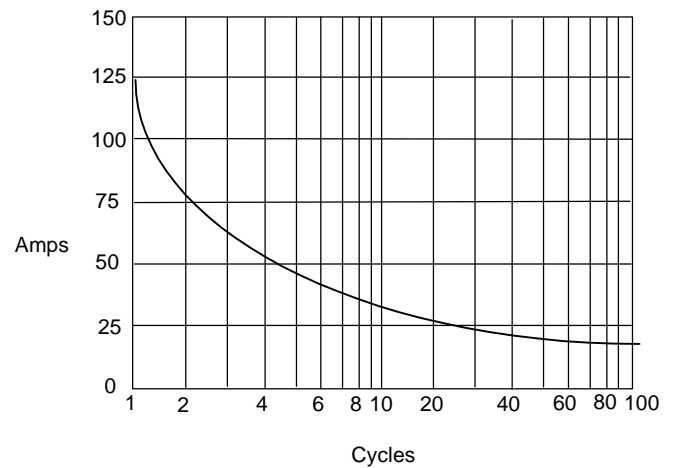
Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



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

Figure 4
Maximum Non-Repetitive Forward Surge Current



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