Micro Commercial Components
21201 Itasca Street Chatsworth
CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

MURF805 THRU MURF860

8 Amp Isolation Super Fast Recovery Rectifier 50 to 400 Volts

Features

- Low Power Loss , High Effciency
- 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

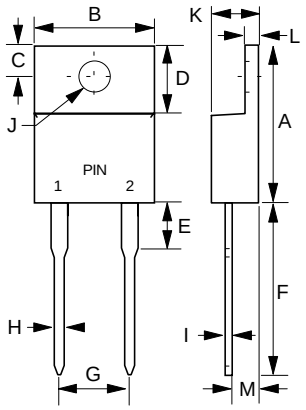
Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURF805	MURF805	50V	35V	50V
MURF810	MURF810	100V	70V	100V
MURF820	MURF820	200V	140V	200V
MURF840	MURF840	400V	320V	400V
MURF860	MURF860	600V	480V	600V

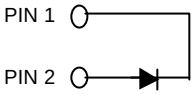
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8.0A	T_C = 100°C
Peak Forward Surge Current	I_{FSM}	125A	8.3 ms, half sine
Maximum Forward Voltage Drop Per Element F805-F820 F840 F860	V_F	0.95V 1.30V 1.70V	I_{FM} = 8 A T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10 uA 500uA	T_A = 25°C T_A = 125°C
Maximum Reverse Recovery Time F805-F820 F840 F860	Trr	35ns 50ns 100ns	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

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

ITO-220AC

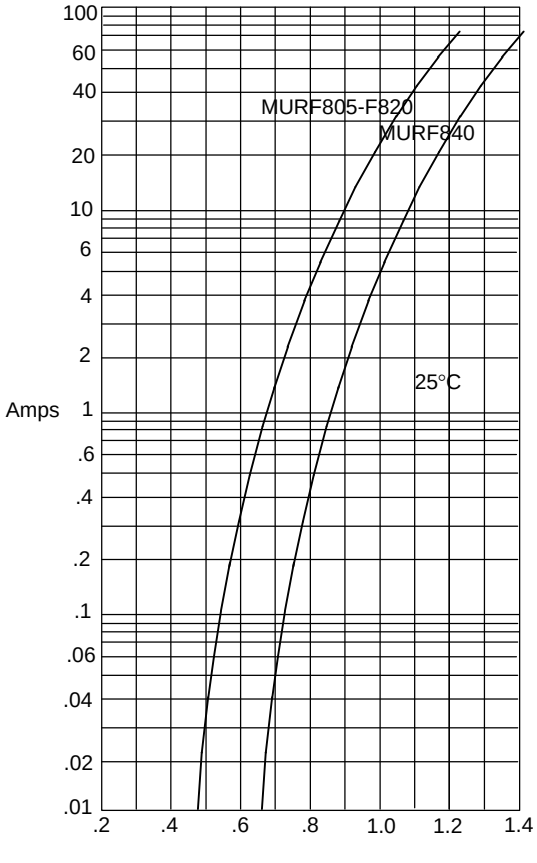




DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	
A	.583	.606	14.80	15.40	
B	---	.406	---	10.30	
C	.100	.112	2.55	2.85	
D	.248	.272	6.30	6.90	
E	---	.161	---	4.10	
F	.512	.543	13.00	13.80	
G	.200		5.10		
H	---	.035	---	0.90	
I	---	.032	---	0.80	
J	.118	.134	3.00	3.40	∅
K	---	.189	---	4.80	
L	---	.123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

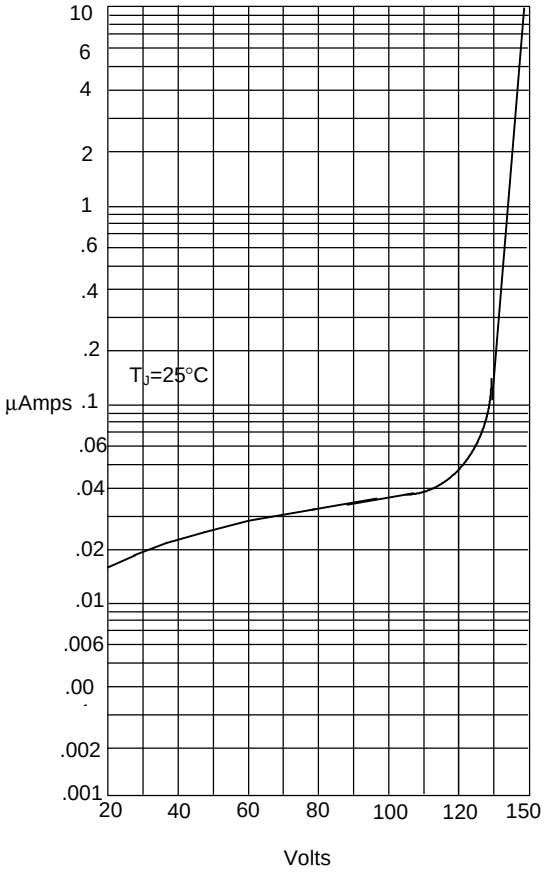
MURF805 thru MURF860

Figure 1
Typical Forward Characteristics



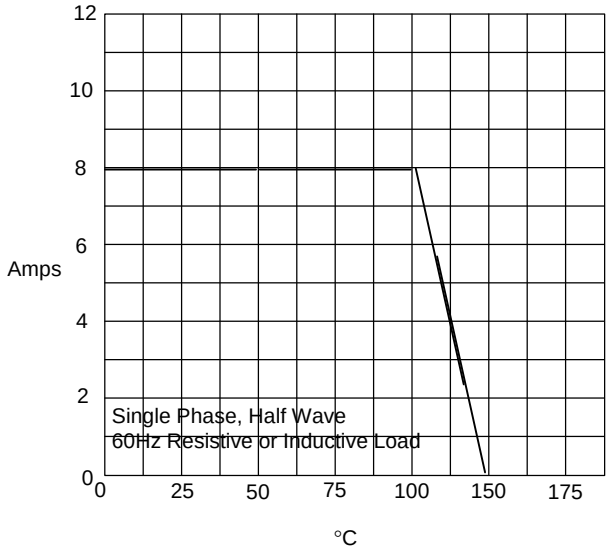
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



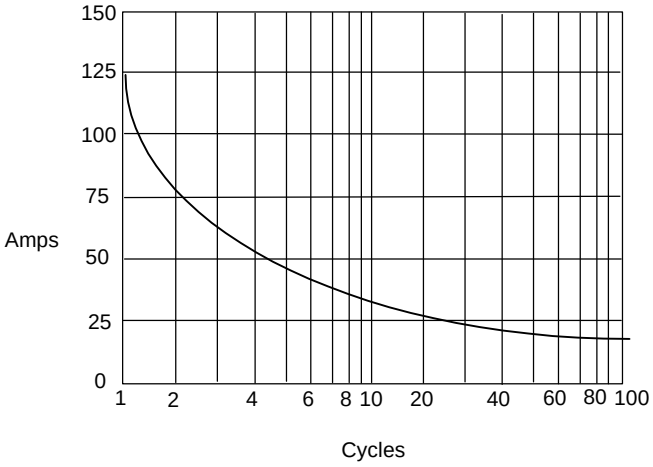
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

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