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

MURHB805CT THRU MURHB860CT

8 Amp Super Fast Recovery Rectifier 50 to 600 Volts

Features

- High Current Capability
- Low Reverse Leakage
- Low Forward Voltage Drop
- High Current Capability
- Super Fast Switching Speed For High Efficiency

Maximum Ratings

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

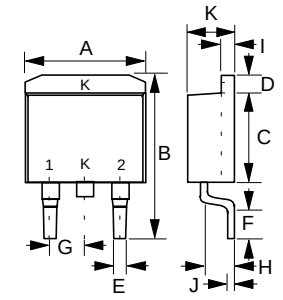
MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURHB805CT	50V	35V	50V
MURHB810CT	100V	70V	100V
MURHB820CT	200V	140V	200V
MURHB840CT	400V	280V	400V
MURHB860CT	600V	420V	600V

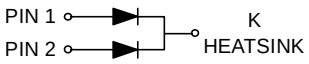
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8 A	T_C = 125°C
Peak Forward Surge Current	I_{FSM}	55A	8.3ms, half sine
Maximum Instantaneous Forward Voltage 805CT- 820CT 840CT 860CT	V_F	1.25 V 1.5 V 1.75 V	I_{FM} = 10A; T_A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	50µA 500µA	T_A = 25°C T_A = 100°C
Maximum Reverse Recovery Time 805CT- 820CT 840CT 860CT	T_{rr}	35ns 50ns 75ns	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

*Pulse Test: Pulse Width 300µsec, Duty Cycle 2%

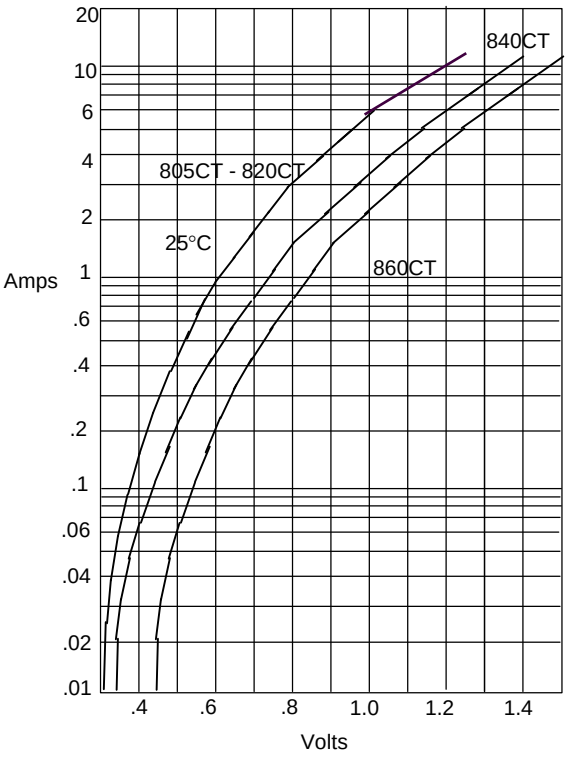
D^2PAK





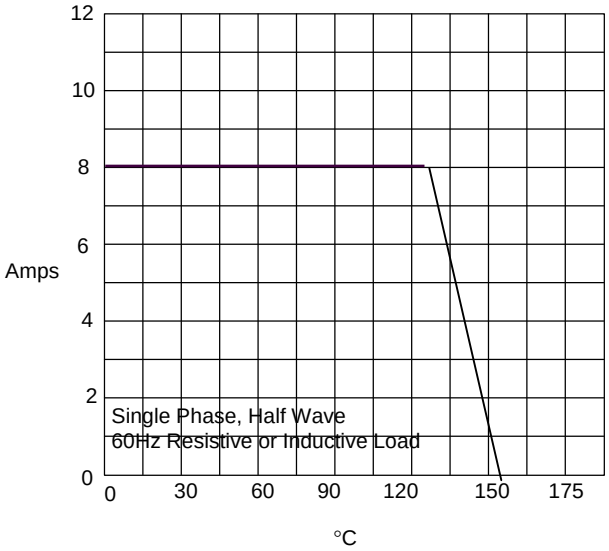
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.380	.421	9.65	10.69	
B	.575	.625	14.60	15.88	
C	.325	.364	8.25	9.25	
D	.045	.055	1.14	1.40	
E	.020	.045	0.51	1.14	
F	.090	.110	2.29	2.79	
G	.090	.110	2.29	2.79	
H	.080	.115	2.03	2.92	
I	.045	.055	1.14	1.40	
J	.012	.025	0.30	0.64	
K	.172	.190	4.37	4.83	

Figure 1
Typical Forward Characteristics



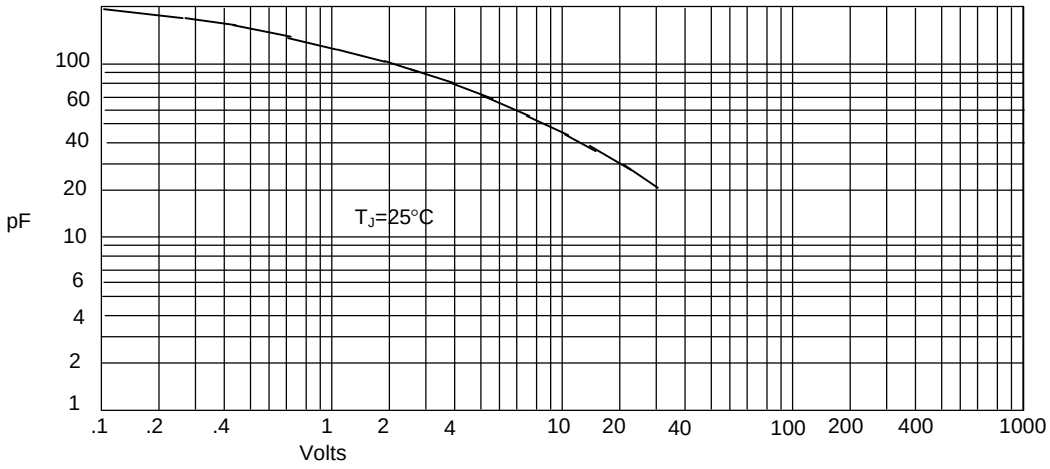
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



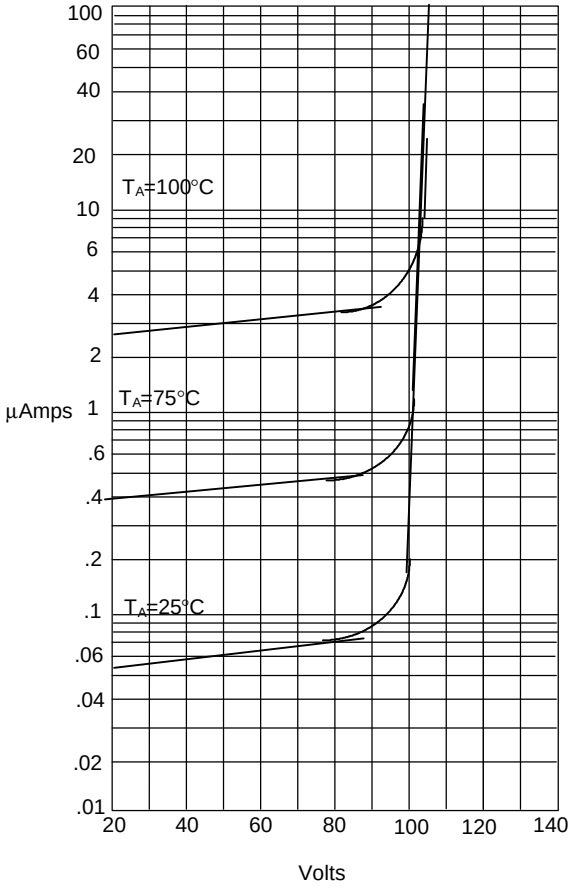
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Junction Capacitance



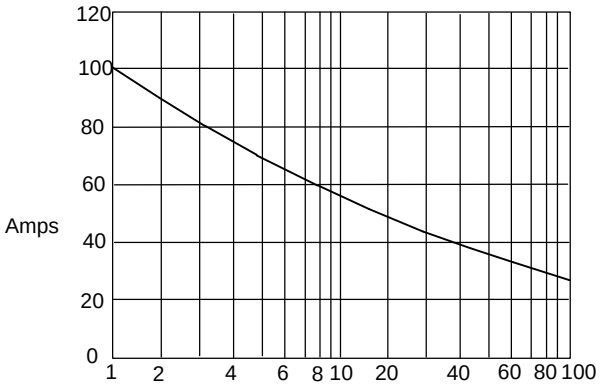
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



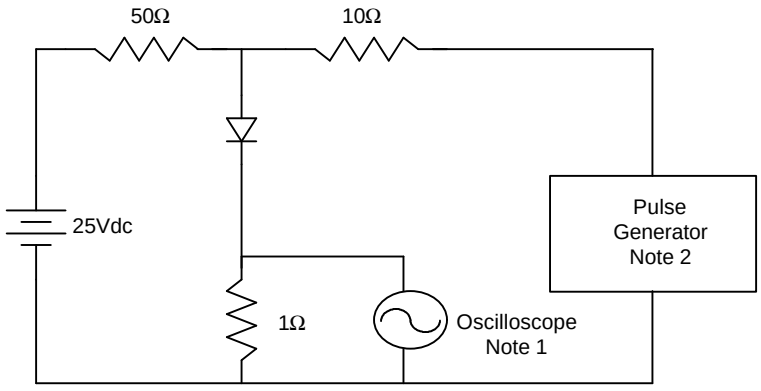
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

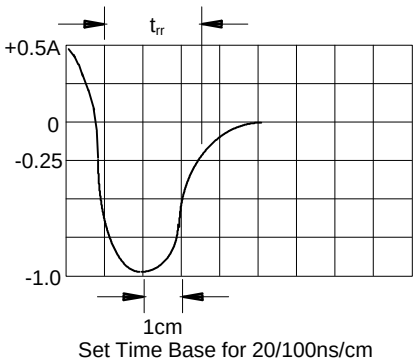
Figure 5
Peak Forward Surge Current



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

Figure 6
Reverse Recovery Time Characteristic And Test Circuit Diagram





Set Time Base for 20/100ns/cm

Notes:
1. Rise Time = 7ns max.
Input impedance = 1 megohm, 22pF
2. Rise Time = 10ns max.
Source impedance = 50 ohms
3. Resistors are non-inductive