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

MR2406FR

24 Amp Rectifier
600 Volts

Features

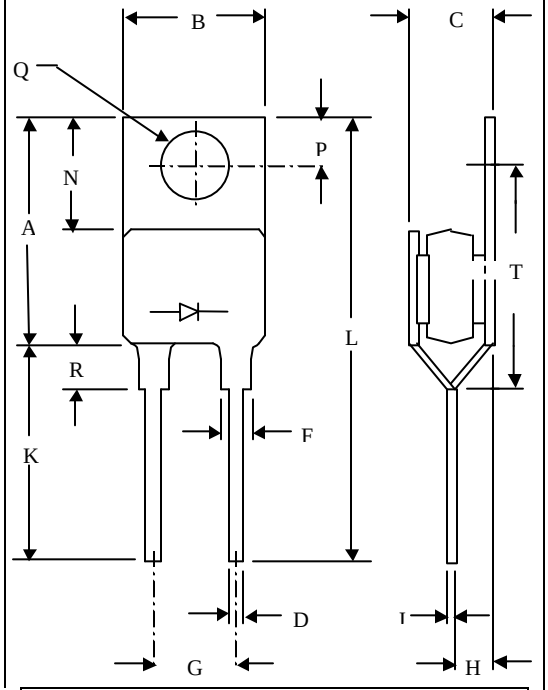
- Glass Passivated Die
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current
- Low Leakage
- Anode To Tab Configuration

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +175°C
- Thermal Resistance Juncetion to Case ($R_{\Theta}jc$):0.8°C/W

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MR2406FR	600V	420V	600V

TO-220 BUTTON



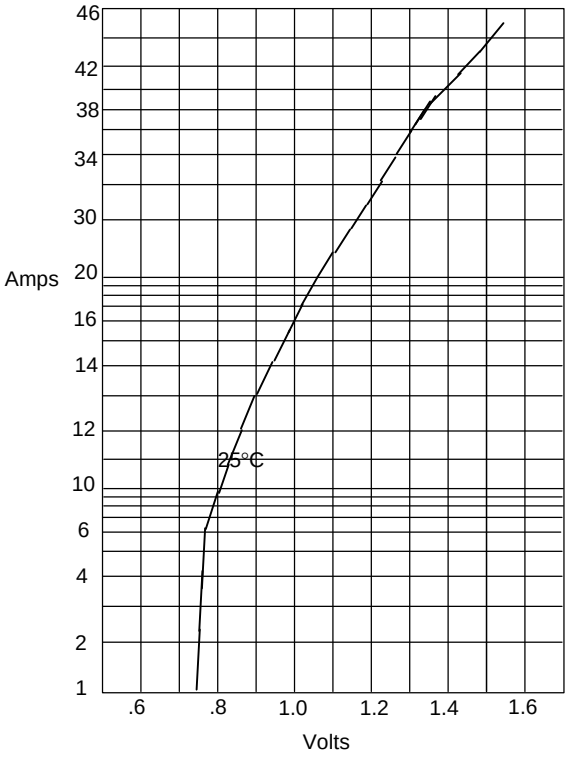
DIM	INCHES MIN	INCHES MAX	M M MIN	M M MAX	NOTE
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.284	.310	7.21	7.87	
D	.025	.045	0.64	1.14	
F	.060	.090	1.52	2.29	
G	.170	.210	4.32	5.33	
H	.080	.110	2.03	2.92	
J	.023	.029	0.58	0.74	
K	---	.562	---	14.27	
L	---	1.187	---	30.15	
N	.230	.270	5.84	6.86	
P	.100	.120	2.54	3.05	
Q	.139	.147	3.53	3.73	
R	---	.200	---	5.08	
S	.140	.150	3.55	3.80	
T	.670	.690	17.02	17.53	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	24.0A	Tc =125°C
Peak Forward Surge Current	I_{FSM}	300A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.15V	I_{FM} = 24.0A; T_A = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	25μA 1.0μA	Tc = 25°C Tc = 100°C
Maximum Reverse Recovery Time	T_{rr}	250ns	I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
Typical Junction Capacitance	C_J	95pF	Measured at 1.0MHz, V_R=4.0V

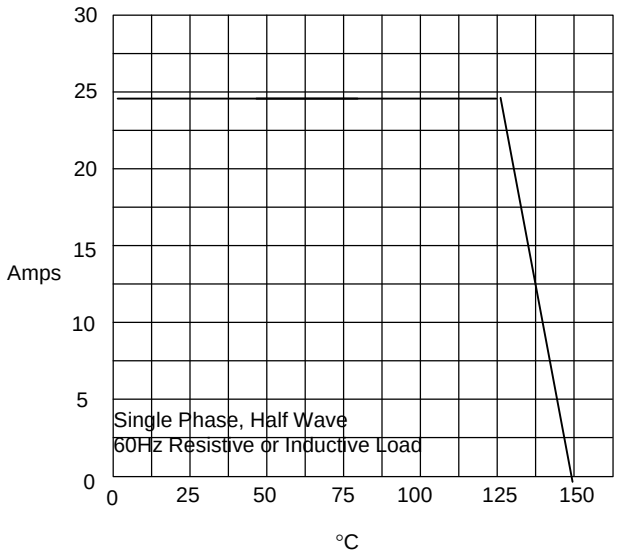
*Pulse test: Pulse width 300 μsec, Duty cycle 1%

Figure 1
Typical Forward Characteristics



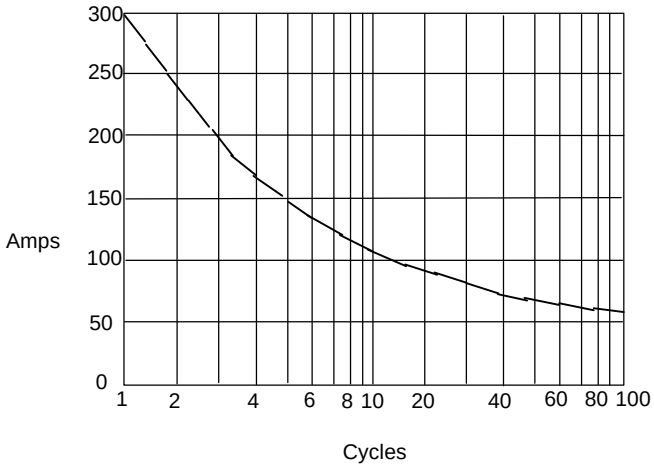
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



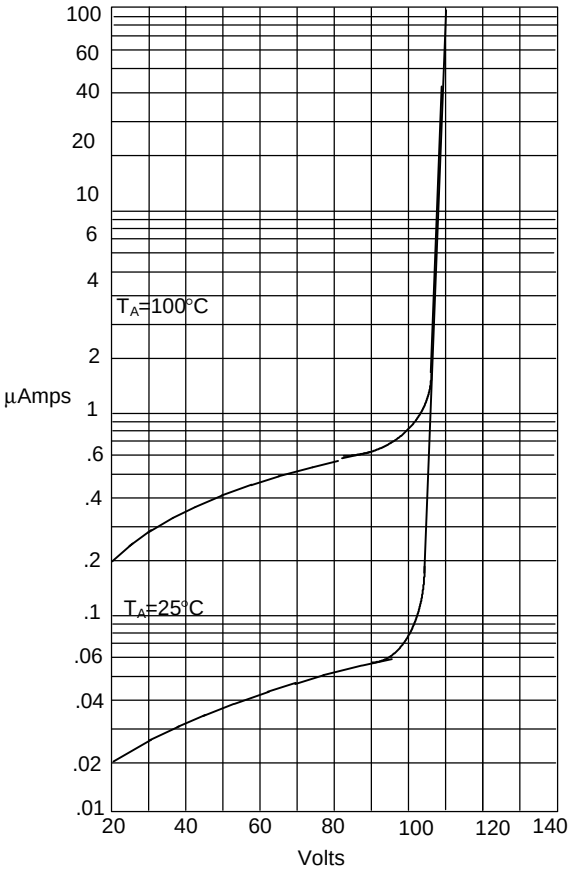
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Maximum Non-Repetitive Forward Surge Current



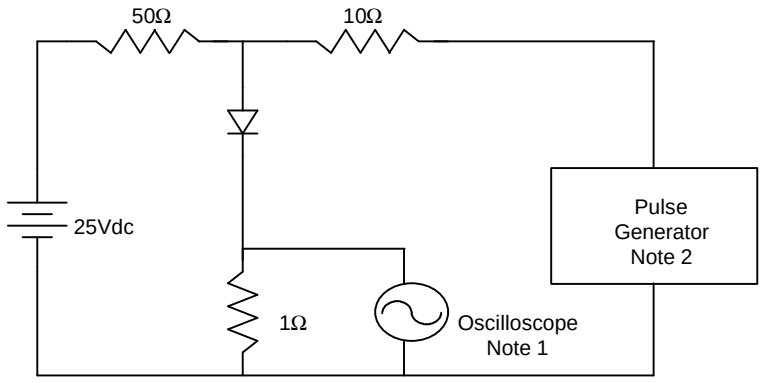
Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

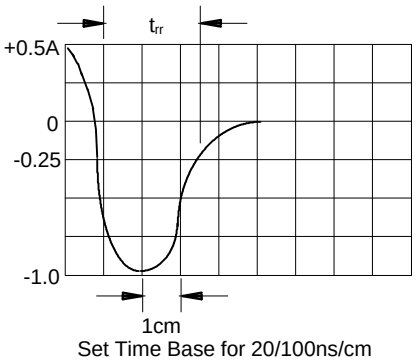
Figure 4
Typical Reverse Characteristics



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

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