



Micro Commercial Components
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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 $+150^{\circ}\text{C}$
- Storage Temperature: -65°C to $+175^{\circ}\text{C}$
- Thermal Resistance Junction to Case ($R_{\theta jc}$): 0.8°C/W

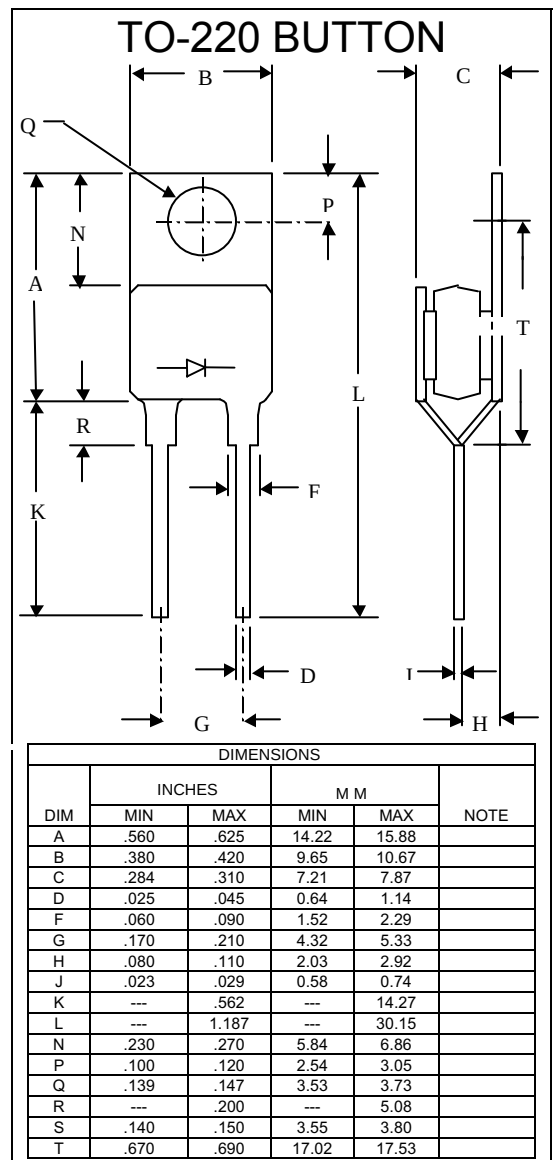
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MR2406FR	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

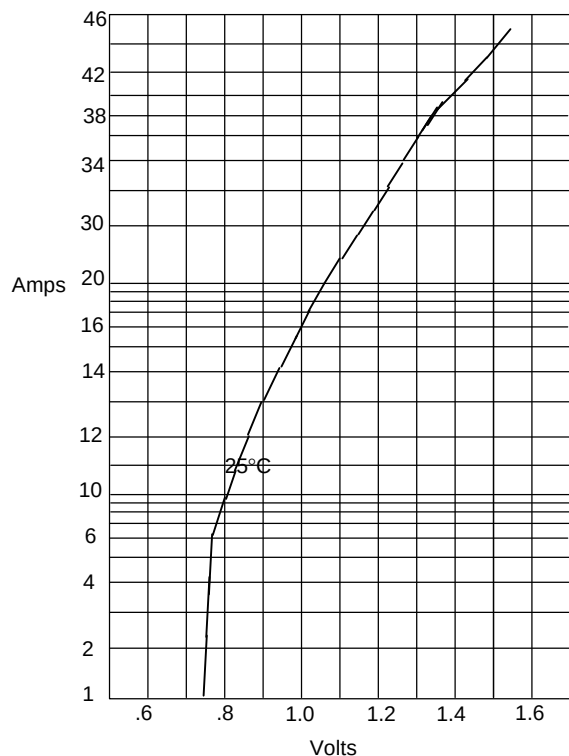
MR2406FR

24 Amp Rectifier 600 Volts



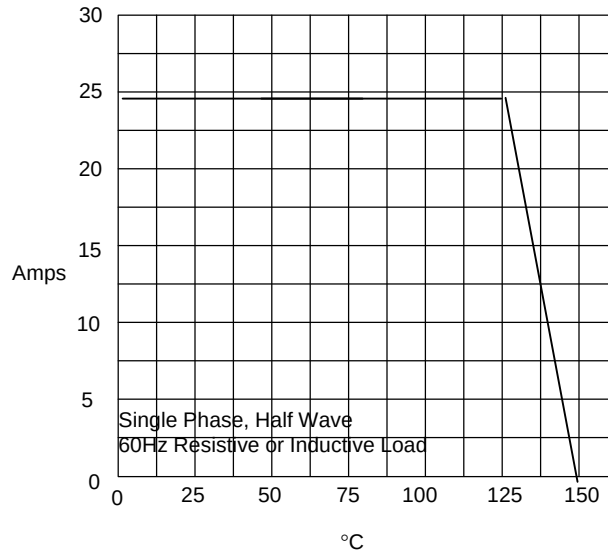
*Pulse test: Pulse width 300 μsec , Duty cycle 1%

Figure 1
Typical Forward Characteristics



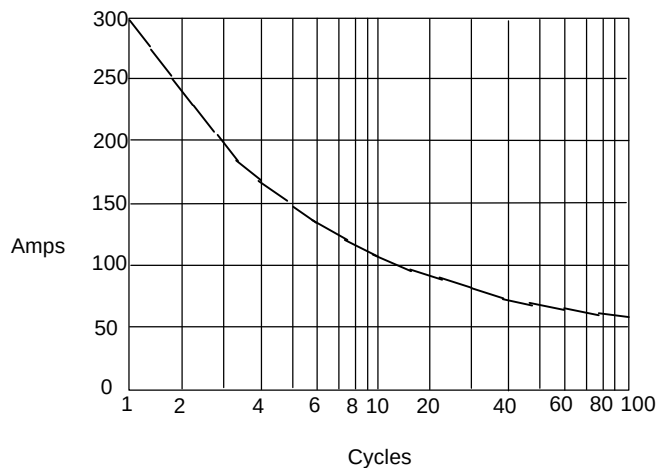
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



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

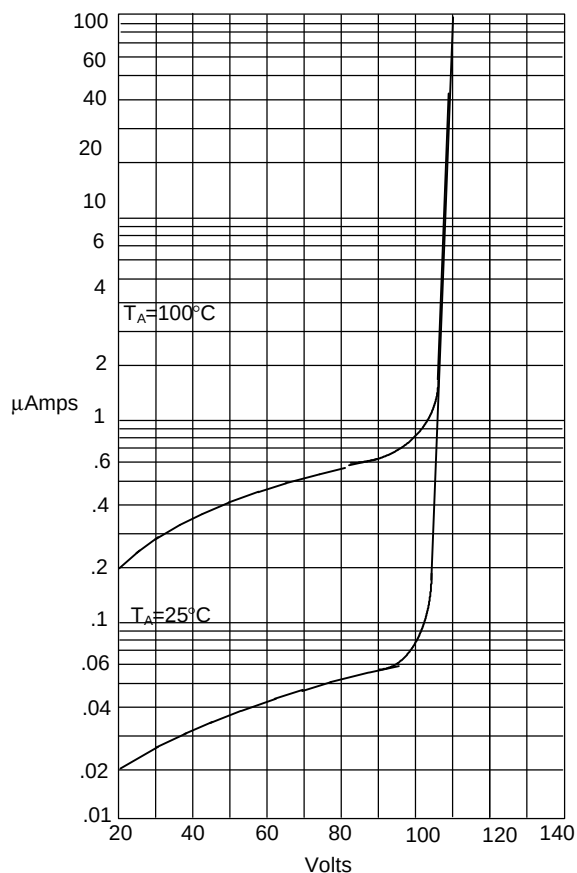
Figure 3
Maximum Non-Repetitive Forward Surge Current



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

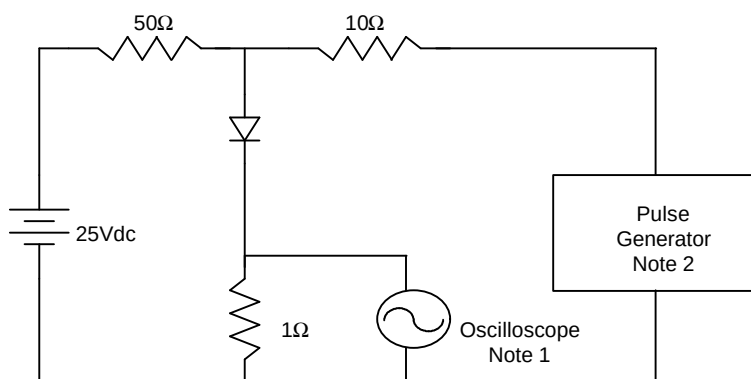
FR2406FR

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



- 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

