Micro Commercial Components
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MR2400 thru MR2410

24 Amp Recovery Rectifier 50 - 1000 Volts

Features

- Low Cost
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Low Leakage

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Maximum Thermal Resistance; 10 °C/W Junction To Ambient

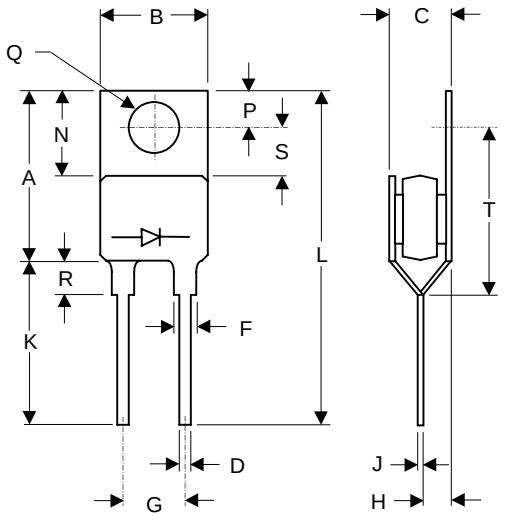
MCC Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MR2400	---	50V	35V	50V
MR2401	---	100V	70V	100V
MR2402	---	200V	140V	200V
MR2404	---	400V	280V	400V
MR2406	---	600V	420V	600V
MR2408	---	800V	560V	800V
MR2410	---	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	24 A	T_A = 150°C
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.18V	I_{FM} = 24.0A; T_J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	100µA	T_J = 25°C
Typical Junction Capacitance	C_J	200pF	Measured at 1.0MHz, V_R=4.0V

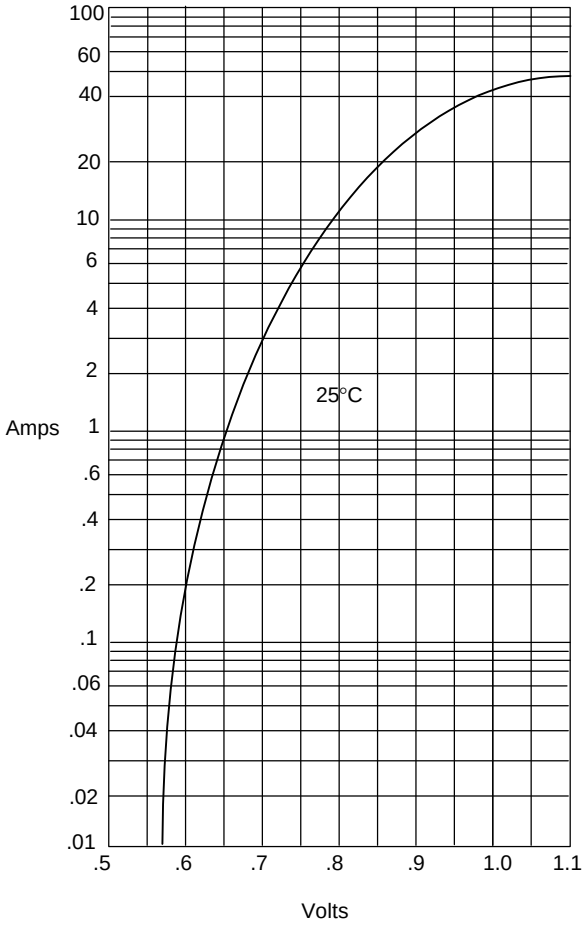
*Pulse test: Pulse width 300 µsec, Duty cycle 1%

TO-220 BUTTON



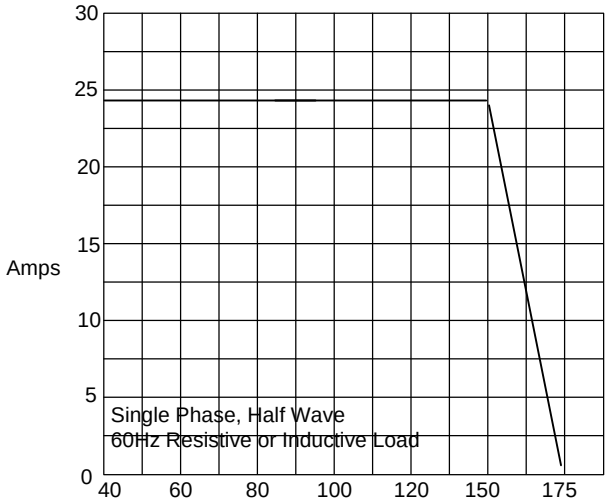
DIMENSIONS					
	INCHES		M M		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.284	.310	7.21	7.87	
D	.025	.045	0.64	1.14	
F	.060	.090	1.52	2.29	
G	.170	.210	4.32	5.33	
H	.080	.110	2.03	2.92	
J	.023	.029	0.58	0.74	
K	---	.562	---	14.27	
L	---	1.187	---	30.15	
N	.230	.270	5.84	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	

Figure 1
Typical Forward Characteristics



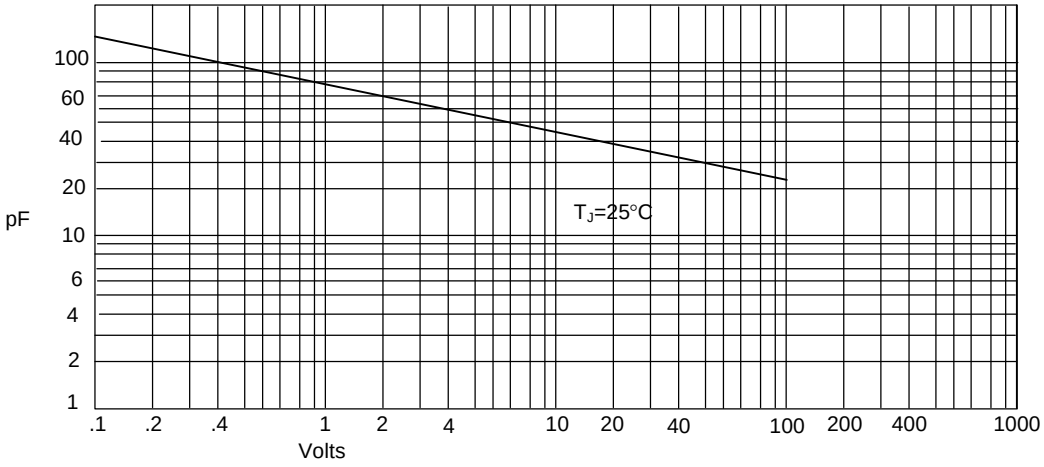
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



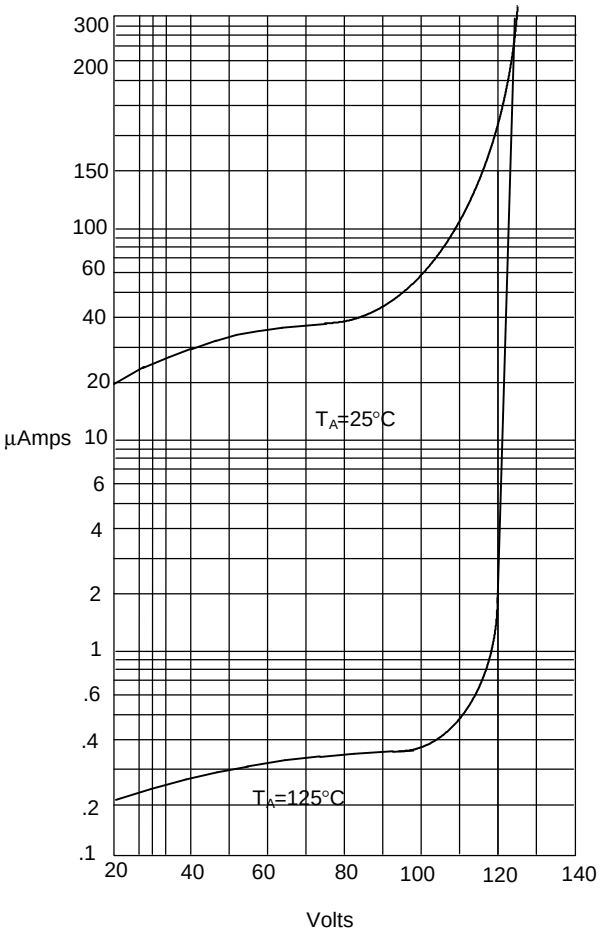
Average Forward Rectified Current - Amperes *versus*
Ambient Temperature -°C

Figure 3
Junction Capacitance



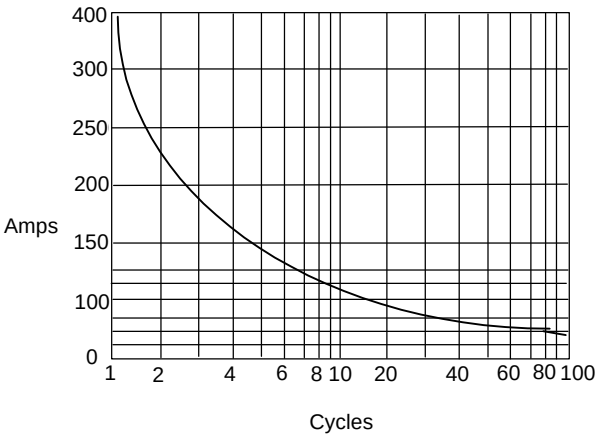
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

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