

Micro Commercial Components

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M1 THRU M7

Features

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Easy Pick And Place
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Low Thermal Resistance

Maximum Ratings

- Operating Temperature: -55°C to +150°C
 Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 15°C/W Junction To Lead

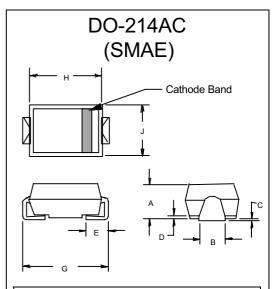
MCC	Device	Maximum	Maximum	Maximum
Catalog	Marking	Recurrent	RMS	DC
Number		Peak Reverse	Voltage	Blocking
		Voltage		Voltage
M1	M1	50V	35V	50V
M2	M2	100V	70V	100V
M3	M3	200V	140V	200V
M4	M4	400V	280V	400V
M5	M5	600V	420V	600V
M6	M6	800V	560V	800V
M7	M7	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

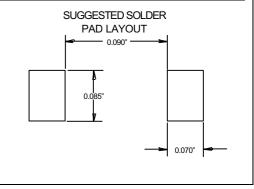
Average Forward current	$I_{F(AV)}$	1.0A	T _a = 75°C
Peak Forward Surge Current	I _{FSM}	30A	8.3ms, half sine,
Maximum Instantaneous Forward Voltage	V_{F}	1.1V	I _{FM} = 1.0A; T _J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μΑ 50μΑ	T _J = 25°C T _J = 125°C
Typical Junction Capacitance	CJ	15pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 300 µsec, Duty cycle 2%

1.0 Amp Silicon Rectifier 50 to 1000 Volts



DIMENSIONS								
	INCHES		MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.079	.096	2.01	2.44				
В	.050	.075	1.27	1.90				
O	.002	.008	.05	.20				
D		.02		.51				
Е	.030	.060	.76	1.52				
G	.189	.208	4.80	5.30				
Н	.157	.180	4.00	4.57				
J	.090	.115	2.29	2.92				



M1 thru M7

Amps

0.01

0.4



Typical Forward Characteristics $T_J = 150^{\circ}C$ 1.0 0.1

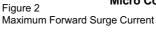
0.8 Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts

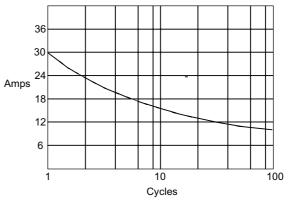
25°C

100°C

0.6

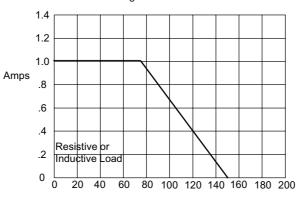
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Peak Forward Current - Amperesversus Number of Cycles at 60Hz

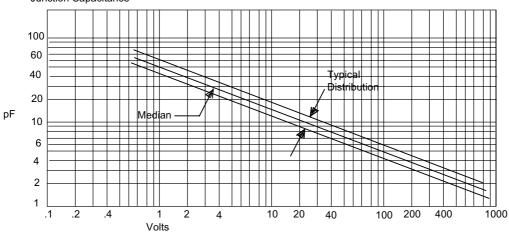
Figure 3 Forward Derating Curve



1.2

 $^{\circ}\text{C}$ Average Forward Rectified Current - AmperesversusAmbient Temperature -°C

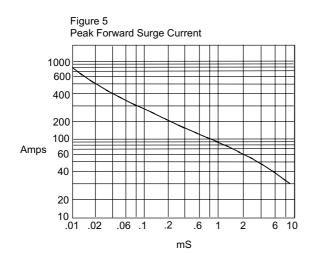
Figure 4 Junction Capacitance



Junction Capacitance - pFversus Reverse Junction Potential (Applied V + 0.7 Volts) - Volts

M1 thru M7





Peak Forward Surge Current - Amperesversus Pulse Duration - Milliseconds (mS)



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