

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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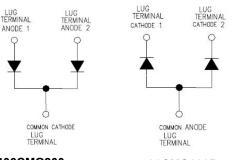
406CMQ200/R SCHOTTKY RECTIFIER



Features

- 175°C T_J operation
- · Center tap module
- High purity, high temperature epoxy encapsulation for
- enhanced mechanical strength and moisture resistance
- Low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



406CMQ200

406CMQ200R

Applications

- High current switching power supply
- Plating power supply
- Free-Wheeling diodes
- Reverse battery protection
- Converters
- UPS System
- Welding

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	200	V
Average Rectified Forward Current	I _{F(AV)}	50% duty cycle @T _C =121°C, rectangular wave form	200(Per Leg) 400(Per Device)	Α
Peak One Cycle Non-Repetitive Surge Current (Per Leg)	I _{FSM}	8.3 ms, half Sine pulse	3840	Α

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com
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Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 200A, Pulse, T _J = 25 °C @ 400A, Pulse, T _J = 25 °C	0.85 -	0.99 1.15	V
	V _{F2}	@ 200A, Pulse, T _J = 125 °C @ 400A, Pulse, T _J = 125 °C	0.70 -	0.79 0.92	V
Reverse Current(Per Leg)*	I _{R1}	$@V_R = \text{rated } V_{R,} T_J = 25 ^{\circ}\text{C}$	0.001	10	mA
	I _{R2}	$@V_R = \text{rated } V_{R_i} T_J = 125 ^{\circ}\text{C}$	1	90	mA
Junction Capacitance(Per leg)	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	3000	5200	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs
Insulation Voltage	V _{RMS}	-	-	1000	V

^{*} Pulse width < 300 µs, duty cycle < 2%

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification		Units
Junction Temperature	TJ	-	-55 to +175		°C
Storage Temperature	T _{stg}	-	-55 to	+175	°C
Typical Thermal Resistance Junction to Case(Per leg)	R _θ JC	DC operation	0.4	0	°C/W
Typical Thermal Resistance Junction to Case(Per package)	R _θ JC	DC operation	0.2	0	°C/W
Typical Thermal Resistance, case to Heat Sink	$R_{ heta cs}$	Mounting surface, smooth and greased	0.10		°C/W
Mounting Torque	T _M	-	Mounting Torque	24(min) 35(max)	- Kg-cm
			Terminal Torque	35(min) 46(max)	
Approximate Weight	wt	-	79 g		g
Case Style	PRM4 Isolated				

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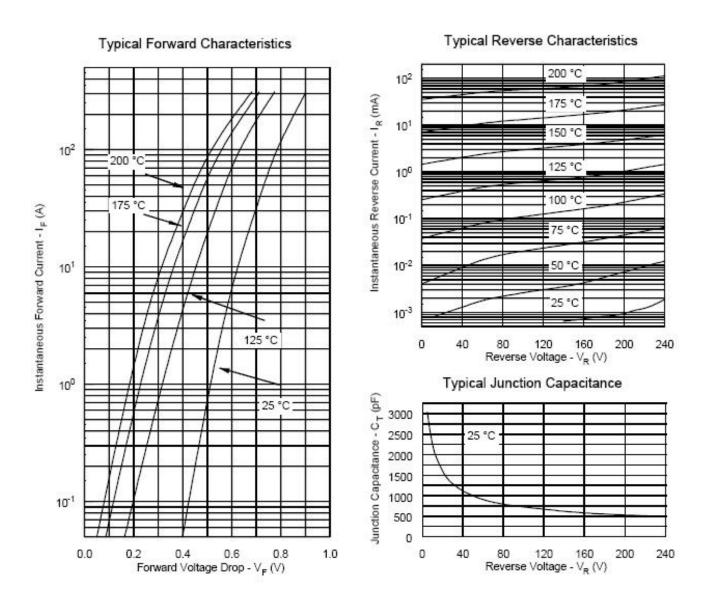
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Ratings and Characteristics Curves



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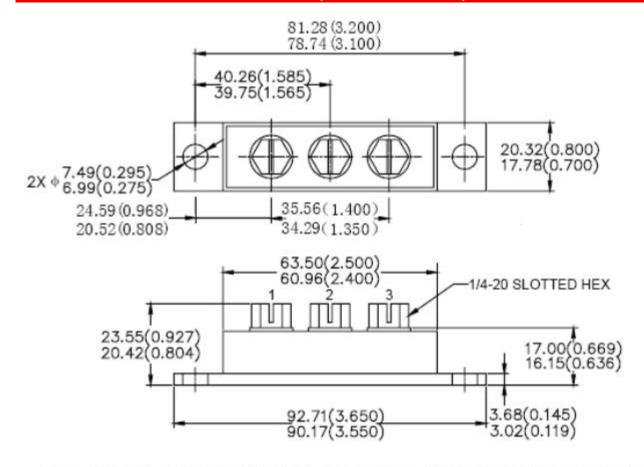
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Mechanical Dimensions PRM4 Isolated(Millimeters/Inches)



Please Note: Anode 1 = Terminal 1; Anode 2 = Terminal 3; Common Cathode = Terminal 2 Suffix R Denotes for Reversed Polarity.

Marking Diagram



Where XXXX is YYWW

406CMQ200 = Part name SS = SS YY = Year WW = Week

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping	
406CMQ200/R	PRM4 Isolated (Pb-Free)	9 pcs/box	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

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