

206CMQ200

Technical Data Data Sheet N1010, Rev. D

RoHS 🧭

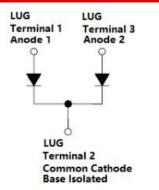
206CMQ200 SCHOTTKY RECTIFIER



Features

- 175℃ 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
- Baseplate: Nickel plated; Terminals: Nickel plated
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Circuit Diagram



Applications

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

Maxi	mum	Rat	ings:	

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 @Tc =121°C, rectangular wave form	100(Per Leg) 200(Per Device)	А
Peak One Cycle Non-Repetitive Surge Current (Per Leg)	I _{FSM}	8.3 ms, half Sine pulse	3840	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 100A, Pulse, TJ = 25 °C @ 200A, Pulse, TJ = 25 °C	0.86 -	0.86 1.03	V
	V _{F2}	@ 100A, Pulse, TJ = 125 °C @ 200A, Pulse, TJ = 125 °C	0.71 -	0.76 0.86	V
Reverse Current(Per Leg)*	I _{R1}	$@V_R = rated V_{R, T_J} = 25 \circ C$	0.003	10	mA
	I _{R2}	$@V_R = rated V_{R,} T_J = 125 \circ C$	0.5	90	mA
Junction Capacitance(Per leg)	Ст	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	1500	2000	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/µs

* 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)	$R_{ ext{ heta}JC}$	DC operation	0.70		°C/W
Typical Thermal Resistance Junction to Case(Per package)	$R_{ ext{ heta}JC}$	DC operation	0.35		°C/W
Typical Thermal Resistance, case to Heat Sink	$R_{ hetacs}$	Mounting surface, smooth and greased	0.1	0	°C/W
Mounting Torque	Т _м	-	Mounting Torque Terminal	24(min) 35(max) 35(min)	Kg-cm
Approximate Weight	wt	-	Torque 46(max) 79 g		g
Case Style	PRM4 Isolated				

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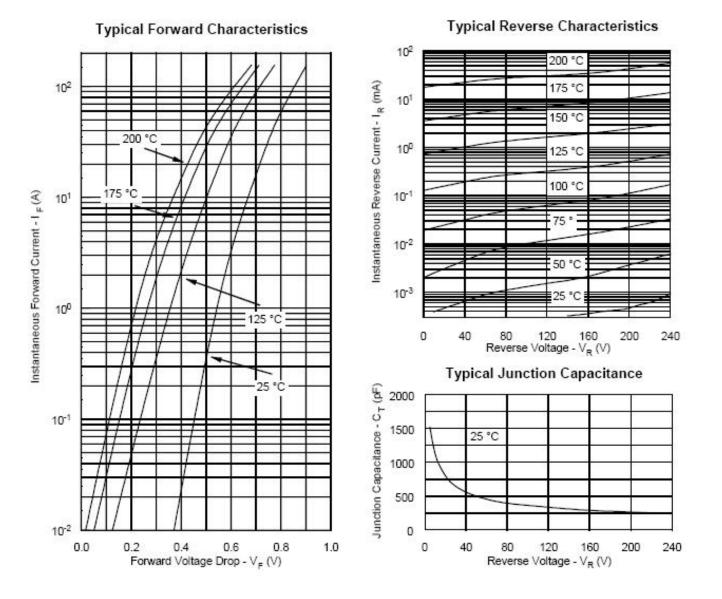


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Ratings and Characteristics Curves



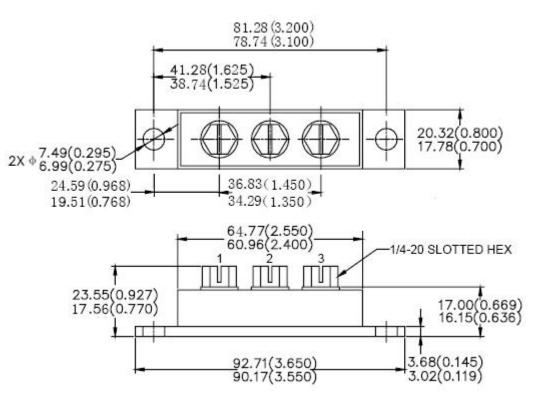


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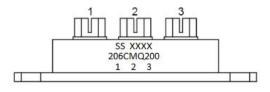
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Mechanical Dimensions PRM4 Isolated(Millimeters/Inches)



Marking Diagram



Where XXXX is YYWW

206CMQ200	= Part name
SS	= SS
YY	= Year
WW	= Week

Cautions: Molding resin Epoxy resin UL:94V-0

Ordering Information

Device	Package	Shipping
206CMQ200	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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