

206CMQ200

Green Products

Technical Data Data Sheet N1010, Rev. C

206CMQ200 SCHOTTKY RECTIFIER

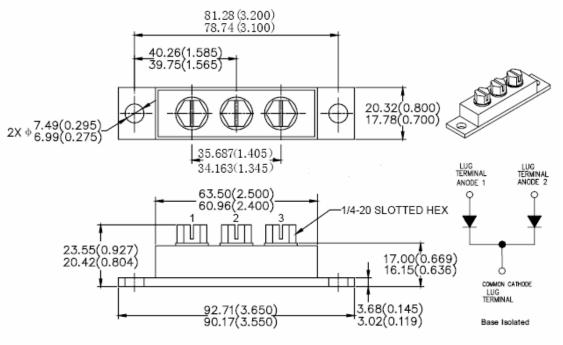
Applications:

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

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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions: In mm/Inches



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

PRM4 (Isolated)

MARKING,MOLDING RESIN Marking for 206CMQ200, 1st row SS YYWWL, 2nd row 206CMQ200 Where YY is the manufacture year WW is the manufacture week code L is the wafer's Lot Number Molding resin Epoxy resin UL:94V-0

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SANGDEST MICROELECTRONICS

206CMQ200

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Characteristics	Symbol	Condition	Max.		Units
Peak Inverse Voltage	V _{RWM}	-	200		V
Max. Average Forward	1	50% duty cycle @T _c =121°C,	100	per leg	А
Current	I _{F(AV)}	rectangular wave form	200	per device	A
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	3840		А

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg) *	V _{F1}	@ 100A, Pulse, T _J = 25 °C @ 200A, Pulse, T _J = 25 °C	0.86 1.03	V
	V _{F2}	@ 100A, Pulse, T _J = 125 °C @ 200A, Pulse, T _J =1 25 °C	0.76 0.86	V
Max. Reverse Current at DC condition	I _{R1}	@V _R = rated V _R T _J = 25 °C	10	mA
Max. Reverse Current	I _{R2}	@V _R = rated V _R T _J = 125 °C	90	mA
Max. Junction Capacitance	C _T	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	2000	pF
Max. Voltage Rate of Change(Rated V_R)	dv/dt	-	10,000	V/µs

* Pulse Width < 300 μ s, Duty Cycle <2%

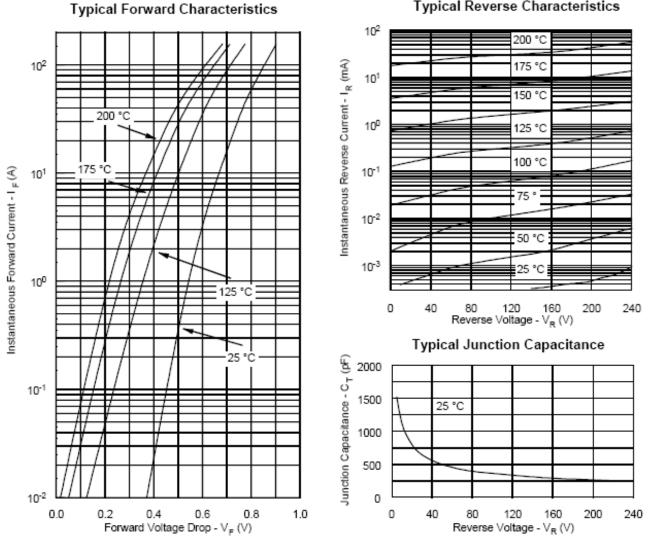
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specifi	Units		
Max. Junction Temperature	TJ	-	-55 to	°C		
Max. Storage Temperature	T _{stg}	-	-55 to	°C		
Maximum Thermal Resistance Junction to Case (per leg)	R _{θJC}	DC operation	0.7		°C/W	
Maximum Thermal Resistance Junction to Case (per device)	$R_{ ext{ heta}JC}$	DC operation	0.35		°C/W	
Typical Thermal Resistance, case to Heat Sink	$R_{\theta cs}$	Mounting surface, smooth and greased	0.10		°C/W	
Mounting Torque	Тм	-	Mounting Torque Terminal Torque	24(min) 35(max) 35(min) 46(max)	Kg-cm	
Approximate Weight	wt	-	79		g	
Case Style	PRM4 (Isolated)					



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Typical Reverse Characteristics

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