Technical Data Data Sheet 3869, Rev. - **Green Products**

206CMQ200-G SCHOTTKY RECTIFIER

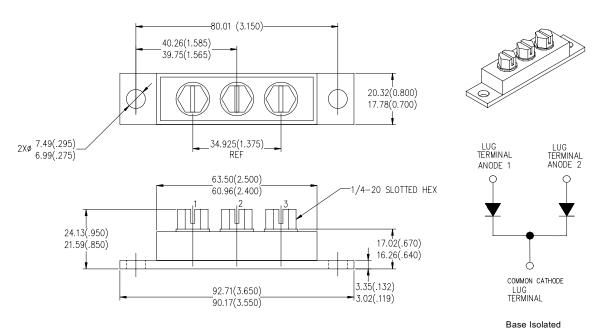
Applic at ions:

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

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
- Green Products in Compliance with the RoHS Directive

Mechanical Dimensions: In Inches / mm



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

PRM4 (Isolated)



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Maximum Ratings:

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

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 100 A, Pulse, T _J = 25 °C	0.86	V
(per leg) *		@ 200 A, Pulse, T _J = 25 °C	1.03	
	V_{F2}	@ 100 A, Pulse, T _J = 125 °C	0.76	V
		@ 200 A, Pulse, T _J = 125 °C	0.86	
Max. Reverse Current (per leg) *	I _{R1}	$@V_R = \text{rated } V_R, T_J = 25 ^{\circ}\text{C}$	10	mA
	I_{R2}	$@V_R = \text{rated } V_R, T_J = 125 ^{\circ}\text{C}$	90	mA
Max. Junction Capacitance	C_T	$@V_R = 5 \text{ V}, T_C = 25 ^{\circ}\text{C}$	2000	pF
(per leg)		f _{SIG} = 1 MHz		
Typical Series Inductance	L_S	Measured lead to lead 5 mm	7.0	nΗ
(per leg)		from package body		
Max. Voltage Rate of Change	dv/dt	-	10,000	V/μs
Insulation Voltage	VRMS		1000	V

^{*} Pulse Width < 300µs, Duty Cycle <2%

Thermal-Mechanical Specifications:

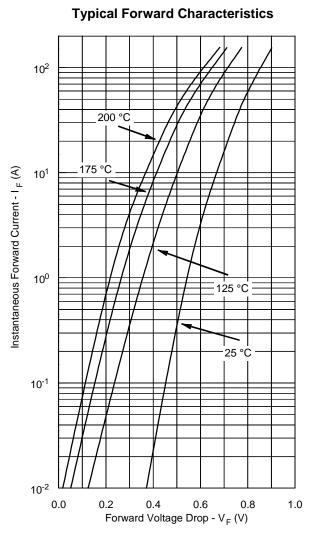
Characteristics	Symbol	Condition	Specification		Units
Max. Junction Temperature	TJ	-	-55 to +175		°C
Max. Storage Temperature	T _{stg}	-	-55 to +175		°C
Maximum Thermal	$R_{\theta JC}$	DC operation	0.70		°C/W
Resistance Junction to Case (per leg)					
Maximum Thermal Resistance Junction to Case (per package)	$R_{ heta JC}$	DC operation	0.35		°C/W
Maximum Thermal Resistance, Case to Heat Sink	R _{θCS}	Mounting surface, smooth and greased	0.10		°C/W
Approximate Weight	wt	-	79		g
Mounting Torque	T _M	-	Mounting Torque Base Terminal	24 (min) 35 (max) 35 (min)	Kg-cm
Coop Style		DDA	Torque	46 (max)	
Case Style	PRM4 Isolated				

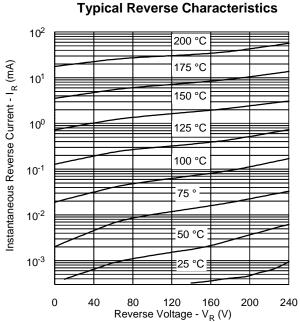
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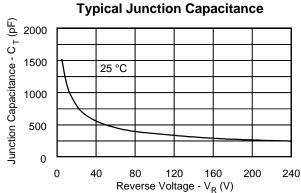
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