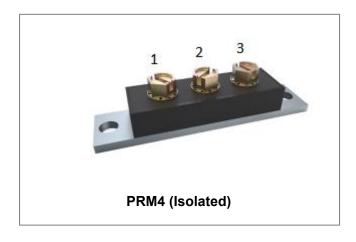






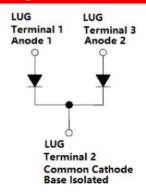
208CMQ060 SCHOTTKY RECTIFIER



Features

- 150°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
- Base plate: 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

Maximum Ratings(limiting values, at 25 °C unless otherwise specified)

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	60	V
Average Rectified Forward Current	I _{F(AV)}	50% duty cycle @T _C =90°C, rectangular wave form	100(Per Leg) 200(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 sales@ smc-diodes.com •







Electrical Characteristics:

Characteristics	Symbol	mbol Condition		Max.	Units
Forward Voltage Drop(Per Leg)*	V _{F1}	@ 100A, Pulse, T _J = 25 °C @ 200A, Pulse, T _J = 25 °C	0.61 0.78	0.68 0.83	V
	V _{F2}	@ 100A, Pulse, T _J = 125 °C @ 200A, Pulse, T _J = 125 °C	0.56 0.71	0.59 0.75	V
Reverse Current(Per Leg)*	I _{R1}	$@V_R = \text{rated } V_{R,} T_J = 25 ^{\circ}\text{C}$	0.4	1.1	mA
	I _{R2}	$@V_R = \text{rated } V_{R_i} T_J = 125 ^{\circ}\text{C}$	67	500	mA
Junction Capacitance(Per leg)	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	3450	6000	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

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

Thermal-Mechanical Specifications:

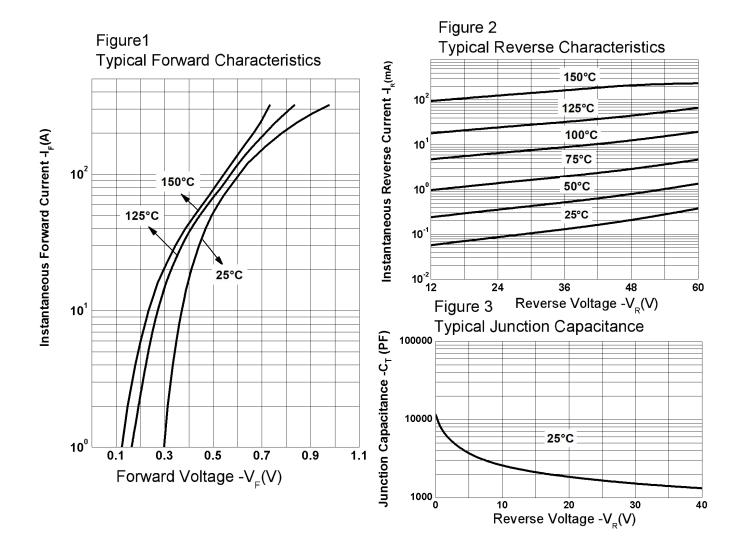
Characteristics	Symbol	Condition	Specification		Units
Junction Temperature	Τ _J	-	-55 to +150		°C
Storage Temperature	T _{stg}	-	-55 to +150		°C
Typical Thermal Resistance Junction to Case(Per leg)	R ₀ JC	DC operation	0.30		°C/W
Typical Thermal Resistance Junction to Case(Per package)	R ₀ JC	DC operation	0.15		°C/W
Typical Thermal Resistance, case to Heat Sink	$R_{ heta cs}$	Mounting surface, smooth and greased	0.05		°C/W
Mounting Torque	т		Mounting Torque	24(min) 35(max)	Va om
Mounting Torque	T _M	-	Terminal Torque	35(min) 46(max)	- Kg-cm
Approximate Weight	wt	-	110		g
Case Style	PRM4 Isolated				







Ratings and Characteristics Curves



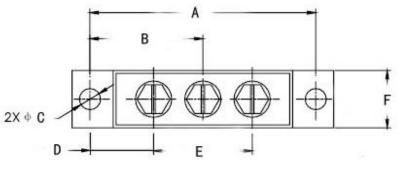
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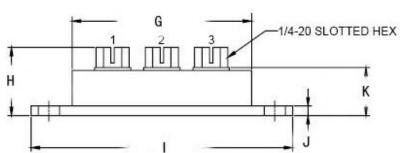






Mechanical Dimensions PRM4 Isolated(Millimeters/Inches)





SYMBOL	Millimeters		Inches	
SYMBOL	Min.	Max.	Min.	Max.
А	78.74	81.28	3.100	3.200
В	37.47	42.55	1.475	1.675
С	6.89	7.69	0.271	0.303
D	19.51	24.59	0.768	0.968
Е	33.02	38.10	1.300	1.500
F	17.78	20.32	0.700	0.800
G	60.96	64.77	2.400	2.550
Н	17.56	23.55	0.691	0.927
I	90.17	92.71	3.550	3.650
J	3.02	3.68	0.119	0.145
К	15.75	17.50	0.620	0.689

Marking Diagram

SS XXXX 208CMQ060 1 2 3

Ordering Information

Device	vice Package	
208CMQ060	PRM4 Isolated (Pb-Free)	9 pcs/box

Where XXXX is YYWW

208CMQ060 = Part name SS = SS YY = Year WW = Week

Cautions: Molding resin

Epoxy resin UL:94V-0









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