

Green Products

66CNQ0200 SCHOTTKY RECTIFIER

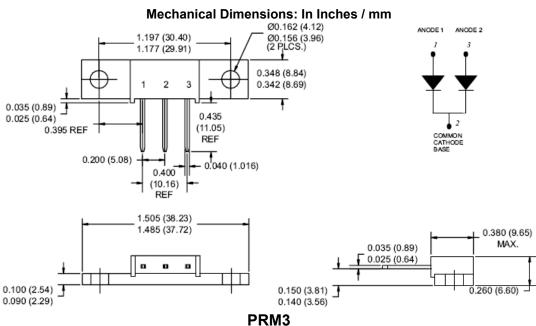
Applications:

- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection

Features:

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

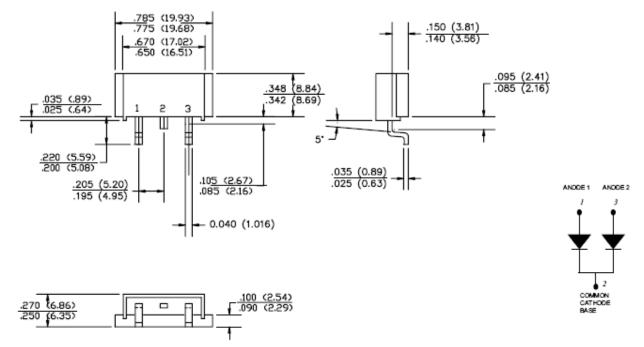




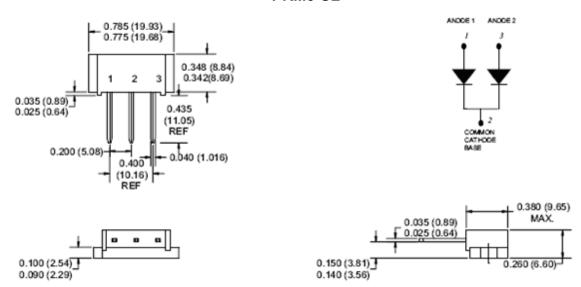
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PRM3-SL



PRM3-SM

MARKING, MOLDING RESIN

Marking for 66CNQ200/SL/SM, 1^{st} row SS YYWWL, 2^{nd} row 66CNQ200/SL/SM, 3^{rd} row 1 2 3 (pin) 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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Ordering Information:

Device	Package	Terminals finish	Shipping
66CNQ200	PRM3	Nickel plated	48pcs / box
66CNQ200S	PRM3	Pure Sn dipped (dipped height 6-8 mm)	48pcs / box

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}$	-	200	V
Average Rectified Forward Current	I _{F(AV)}	50% duty cycle @T _C =155°C, rectangular wave form	60	А
Peak One Cycle Non-Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	708	Α

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop	V_{F1}	@ 30A, Pulse, T _J = 25 °C	0.80	0.92	V
(per leg) *	V_{F2}	@ 30A, Pulse, T _J = 125 °C	0.63	0.72	V
Reverse Current (per leg) *	I _{R1}	$@V_R = \text{rated } V_R T_J = 25 ^{\circ}\text{C}$	0.0002	1.5	mA
	I _{R2}	$@V_R = \text{rated } V_R T_J = 125 ^{\circ}\text{C}$	0.28	21	mA
Junction Capacitance (per leg)	Ст	$@V_R = 5V, T_C = 25 °C$ $f_{SIG} = 1MHz$	750	900	pF
Series Inductance (per leg)	L _S	Measured lead to lead 5 mm from package body	6.0	-	nH
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

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

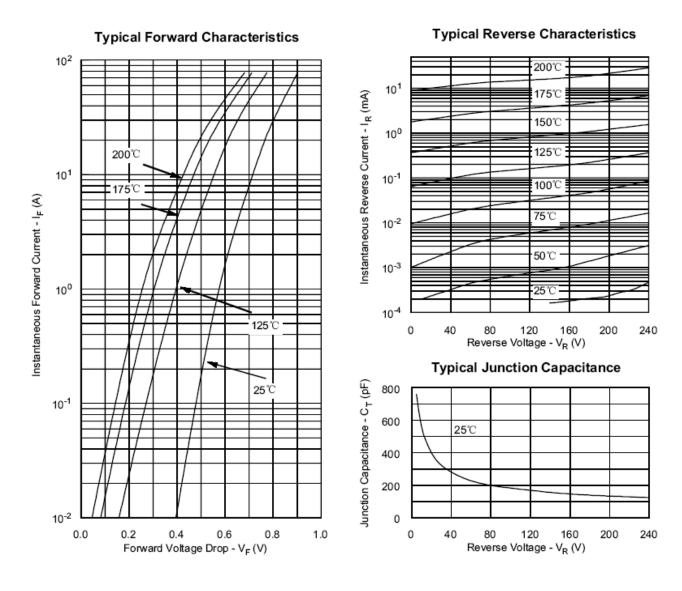
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +175	°C
Storage Temperature	T_{stg}	-	-55 to +175	°C
Typical Thermal Resistance Junction to Case(per leg)	$R_{ heta JC}$	DC operation	0.85	°C/W
Typical Thermal Resistance Junction to Case (per package)	$R_{ heta JC}$	DC operation	0.42	°C/W
Typical Thermal Resistance, case to Heat Sink	$R_{ heta cs}$	Mounting surface, smooth and greased	0.30	°C/W
Mounting Torque	Тм	_	40(min)	Kg-cm
Woulding Forque	I M	_	58(max)	Ng-cill
Approximate Weight	wt	-	7.8	g
Case Style	PRM3 PRM3-SL PRM3-SM			

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66CNQ200

Technical Data
Data Sheet N1056, Rev. -

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