

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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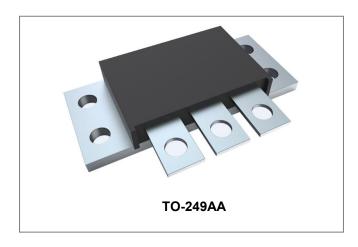








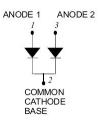
169CMQ135/169CMQ150 SCHOTTKY RECTIFIER



Features

- 150°C T_J operation
- Isolated heatsink
- · Low profile, high current package
- Center tap module
- 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
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Schematic & Pin Configuration



Applications

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

Maximum Ratings:

Characteristics	Symbol	Condition		Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	$V_{RRM} \ V_{RWM}$	_	135	169CMQ135	V
DC Blocking Voltage	VR		150	169CMQ150	· ·
Average Rectified Forward Current	I _{F (AV)}	50% duty cycle @T _C =87°C, rectangular wave form		0(Per Leg) 0(Per Device)	Α
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse		960	Α

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com
 sales@ smc-diodes.com







Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop(Peg Leg)*	V _{F1}	@ 80A, Pulse, T _J = 25 °C	0.81	1.05	V
	V_{F2}	@ 80A, Pulse, T _J = 125 °C	0.70	0.85	V
Reverse Current(Peg Leg)*	I _{R1}	@V _R = rated V _R , T _J = 25 °C	0.0002	1.5	mA
	I _{R2}	@V _R = rated V _R ,T _J = 125 °C	0.4	21	mA
Junction Capacitance(Peg Leg)	Ст	$@V_R = 5V, T_C = 25 \text{ °C}$ $f_{SIG} = 1MHz$	1150	1300	pF
Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

 $^{^{\}star}$ Pulse width < 300 μ s, duty cycle < 2%

Thermal-Mechanical Specifications:

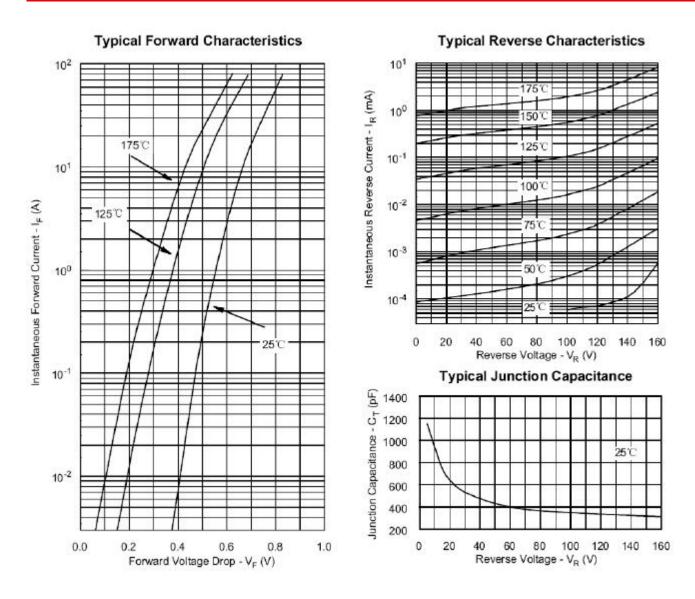
Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	T_J	-	-55 to +150	°C
Storage Temperature	T _{stg}	-	-55 to +150	°C
Typical Thermal Resistance Junction to Case (Per Leg)	$R_{ heta JC}$	DC operation	1.0	°C/W
Typical Thermal Resistance Junction to Case (Per Package)	R ₀ JC	DC operation	0.50	°C/W
Typical Thermal Resistance, case to Heat Sink	$R_{ heta cs}$	Mounting surface, smooth and greased	0.10	°C/W
Mounting Torque	T _M	-	40(min) 58(max)	Kg-cm
Approximate Weight	wt	-	58	g







Ratings and Characteristics Curves



Ordering Information

Device	Package	Shipping	
169CMQ SERIES	TO-249AA(Pb-Free)	24pcs/ box	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our tape and reel packaging specification.

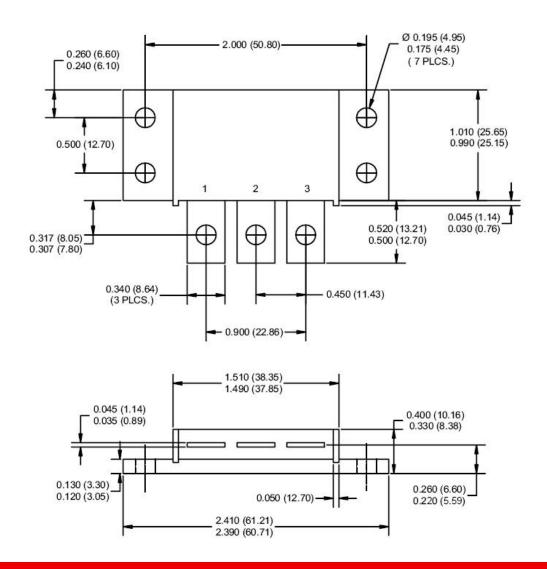
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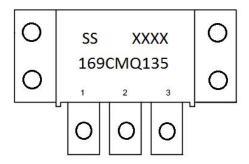




Mechanical Dimensions TO-249AA (Inches/Millimeters)



Marking Diagram



Where XXXX is YYWW

1st row SS YYWW
2nd row 169CMQ135
3rd row 1 2 3 (pin)
SS = SS
YY = Year
WW = Week

Cautions: Molding resin

Epoxy resin UL:94V-0

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169CMQ...SERIES



Technical Data Data Sheet N1239, Rev. A





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