

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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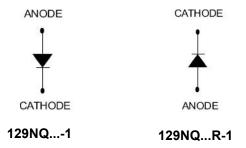
129NQ135/R-1 129NQ150/R-1SCHOTTKY RECTIFIER



Features

- 175℃ T_J operation
- Unique high power, Half-Pak module
- Replaces three parallel DO-5'S
- Easier to mount and lower profile than DO-5'S
- 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

Circuit Diagram



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	129NQ135(R)-1	V
DC Blocking Voltage	V _R		150	129NQ150(R)-1	·
Average Forward Current	I _{F(AV)}	50% duty cycle @Tc=110°C, rectangular wave form	120		А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	1140		А

- 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*	V _{F1}	@ 120A, Pulse, T _J = 25 °C	0.81	1.07	V
	V _{F2}	@ 120A, Pulse, T _J = 125 °C	0.64	0.74	V
Reverse Current*	I _{R1}	@V _R = rated V _R T _J = 25 °C	0.004	3	mA
	I _{R2}	$@V_R = \text{rated } V_R T_J = 125 ^{\circ}\text{C}$	0.6	45	mA
Junction Capacitance	Ст	$@V_R = 5V, T_C = 25 ^{\circ}C$ $f_{SIG} = 1MHz$	2300	3000	pF
Max. Voltage Rate of Change	dv/dt	-	-	10,000	V/μs

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specific	Units	
Junction Temperature	TJ	-	-55 to +175		°C
Storage Temperature	T _{stg}	-	-55 to +175		°C
Typical Thermal Resistance Junction to Case	R ₀ JC	DC operation	0.40		°C/W
Typical Thermal Resistance, case to Heat Sink	$R_{ heta cs}$	Mounting surface, smooth and greased	0.15		°C/W
Mounting Torque	Тм	Non-lubricated threads	Mounting Torque Terminal Torque	23(min) 29(max) 35(min) 46(max)	Kg-cm
Approximate Weight	wt	-	25.6		g
Case Style	PRM1-1				

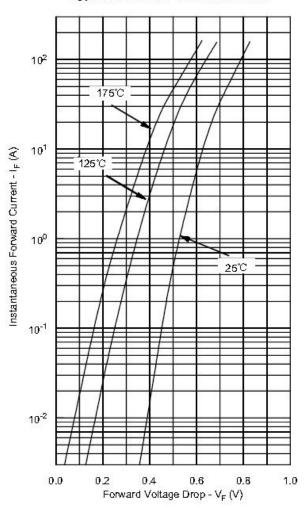




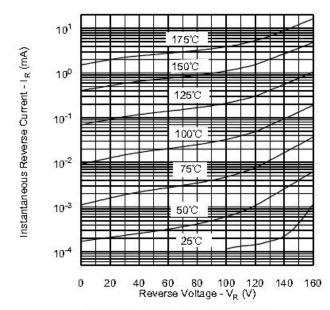


Ratings and Characteristics Curves

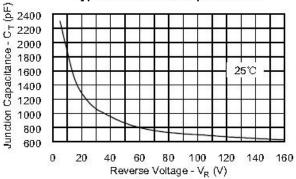
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



[•] China - Germany - Korea - Singapore - United States •





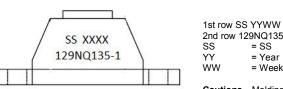


Ordering Information

Device	Package	Shipping	
129NQ SERIES	PRM1-1(Pb-Free)	27pcs/ box	

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

Marking Diagram

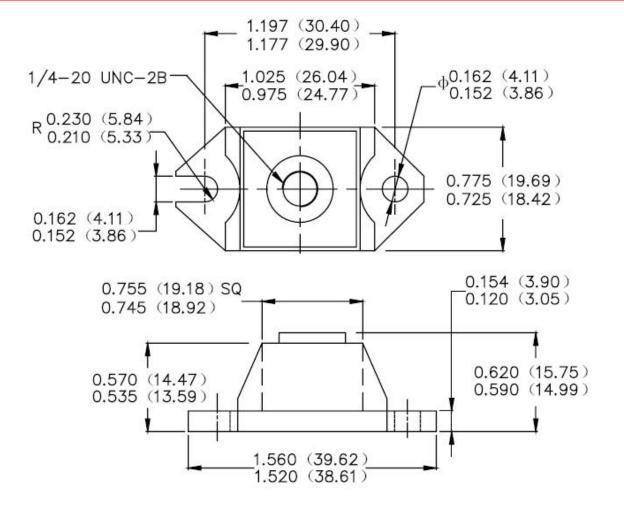


Where XXXX is YYWW

2nd row 129NQ135-1 = SS = Year = Week

Cautions: Molding resin Epoxy resin UL:94V-0

Mechanical Dimensions PRM1-1 (Inches/Millimeters)



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