

Technical Data Data Sheet N0651, Rev. - **Green Products**

10MQ200N SCHOTTKY RECTIFIER

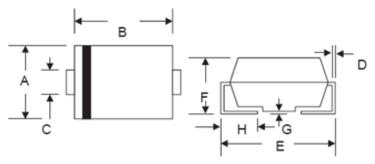
Applications:

- Disk Drives
- Switching power supply
- Converters
- Free-Wheeling diodes
- Reverse battery protection
- Battery Charging

Features:

- Small foot print, surface moutable
- 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

Mechanical Dimensions (In mm / Inches):

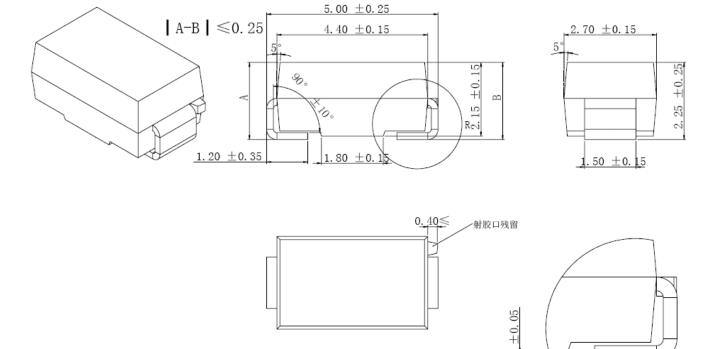


SMA/DO-214AC				
Dim	Min	Мах	Min	Мах
Α	2.50	2.90	0.098	0.114
в	4.00	4.60	0.157	0.181
С	1.40	1.60	0.055	0.063
D	0.152	0.305	0.006	0.012
E	4.80	5.28	0.189	0.208
F	2.00	2.44	0.079	0.096
G	0.051	0.203	0.002	0.008
н	0.76	1.52	0.030	0.060
	In mm		In inch	
OPTION 1				

Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 (86) 25-87123907 •
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OPTION2 (JK)

0.10

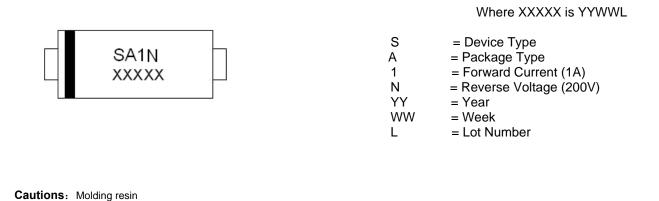
SMA



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Marking Diagram:



Ordering Information:

Epoxy resin UL:94V-0

Device		Package	Shipping	
10N	1Q200N	SMA (Pb-Free)	5000pcs / reel	

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 Inverse Voltage	V _{RWM}	-	200	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _L =105°C, rectangular wave form	1.0	А
Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	8.3 ms, half Sine pulse	20	A

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Electrical Characteristics:

_Characteristics	Symbol	Condition	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 1 A, Pulse, T _J = 25 °C	0.92	V
	V _{F2}	@ 1 A, Pulse, T _J = 125 °C	0.76	V
Reverse Current *	I _{R1}	$@V_R = Rated V_R$, Pulse, T _J = 25 °C	0.5	mA
	I _{R2}	$@V_R = Rated V_R, Pulse, T_J = 125 °C$	1.0	mA
Junction Capacitance	CT	@V _R = 5V, T _C = 25 °C f _{SIG} = 1MHz	20	PF
Typical Series Inductance	L _S	Measured lead to lead 5 mm from package body	2.0	nH
Voltage Rate of Change	dv/dt	-	10,000	V/µs

 * Pulse Width < 300 $\mu s,$ Duty Cycle < 2%

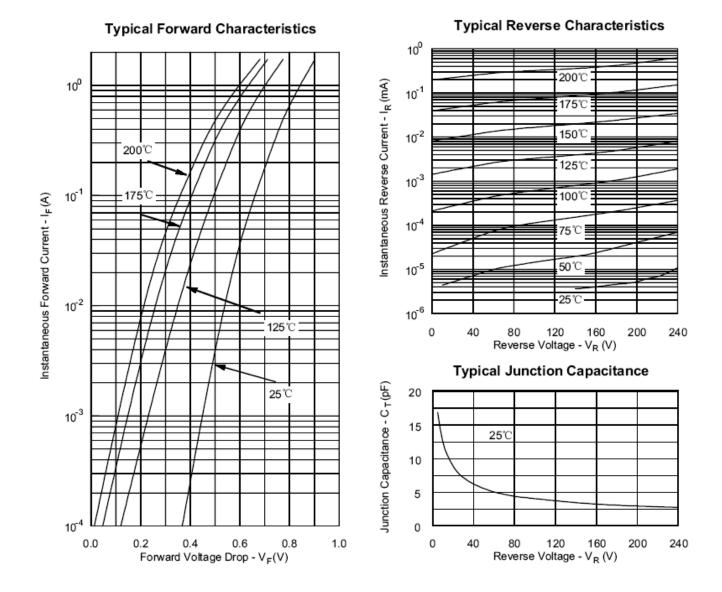
Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	ΤJ	-	-55 to +175	°C
Storage Temperature	T _{stg}	-	-55 to +175	°C
Maximum Thermal Resistance Junction to Ambient	$R_{ heta JA}$	DC operation	80	°C/W
Approximate Weight	wt	-	0.11	g
Case Style		SMA	•	



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