

Green Products

15MQ045N SCHOTTKY RECTIFIER

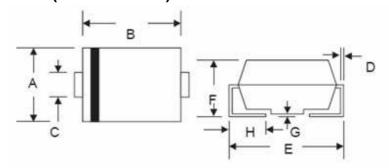
Applications:

- 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	Max	Min	Max
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

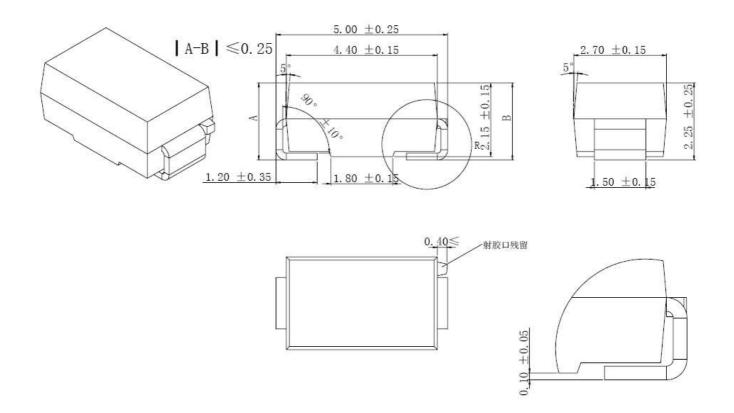
[•] Weiqi Street, Airport Development Zone, Jiangning District, Nanjing, China 211113 🗏 (86) 25-87123907 •

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OPTION2 (JK)

SMA

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Technical Data
Data Sheet N0665, Rev. Marking Diagram:

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Where XXXXX is YYWWL

S = Device Type D = Package Type

15 = Forward Current (1.5A) G = Reverse Voltage (45V)

YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

Ordering Information:

Device	Package	Shipping
SD15G	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}	-	45	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle @T _L =105℃, rectangular wave form On PC board 9mm² island	2.1	А
Max. Peak One Cycle Non- Repetitive Surge Current (per leg)	I _{FSM}	10 ms, half Sine pulse	60	А

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Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop*	V_{F1}	@ 1 A, Pulse, T _J = 25 ℃	0.42	V
		@ 2 A, Pulse, T _J = 25 ℃	0.49	
	V_{F2}	@ 1 A, Pulse, T _J = 100 ℃	0.34	V
		@ 2 A, Pulse, T _J = 100 ℃	0.43	
Max. Reverse Current *	I _{R1}	$@V_R = Rated V_R, Pulse,$	1.0	mA
		T _J = 25 ℃		
	I_{R2}	$@V_R = Rated V_R, Pulse,$	20	mA
		T _J = 125 ℃		
Max. Junction Capacitance	C _T	@V _R = 10V, T _C = 25 ℃	134	PF
		$f_{SIG} = 1MHz$		
Typical Series Inductance	L _S	Measured lead to lead 5 mm from	2.0	nΗ
		package body		
Max. Voltage Rate of	dv/dt	-	10,000	V/µs
Change				

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

Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Max. Junction Temperature	T_J	-	-55 to +150	S
Max. Storage Temperature	T _{stq}	-	-55 to +150	$^{\circ}$
Maximum Thermal Resistance Junction to Ambient	$R_{\theta JA}$	DC operation	80	C/W
Approximate Weight	wt	-	0.17	g
Case Style		SMA		

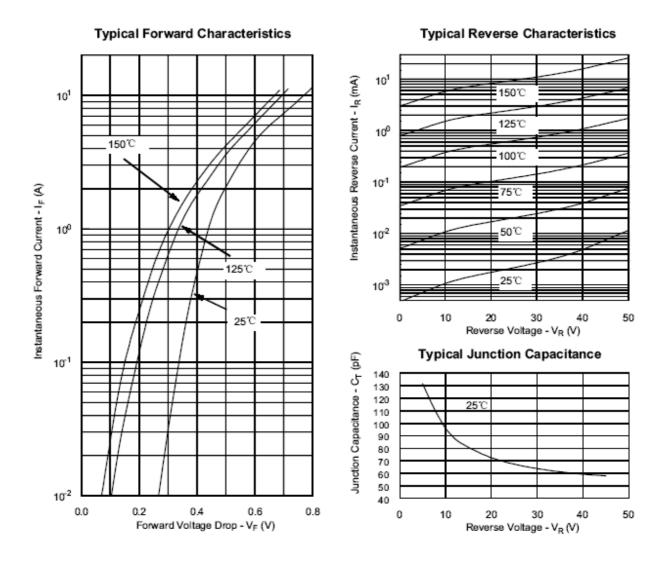
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Technical Data Data Sheet N0665, Rev. -

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