imall

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!



Contact us

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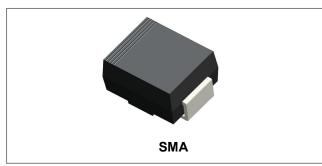


15MQ060N

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15MQ060N SCHOTTKY RECTIFIER



Circuit Diagram



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

Applications

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

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	-	60	V
Average Forward Current	I _{F(AV)}	50% duty cycle @T _L =105°C, rectangular wave form On PC board 9mm ² island	2.1	А
Peak One Cycle Non-Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse, T_C = 25 °C	60	А

Electrical Characteristics:

Characteristics	Symbol	Condition	Тур.	Max.	Units
Forward Voltage Drop*	V _{F1}	@ 1.5 A, Pulse, T _J = 25 °C @ 3 A, Pulse, T _J = 25 °C	0.39 0.41	0.5 0.6	V
Reverse Current*	I _{R1}	$@V_R = Rated V_R, Pulse, T_J = 25 °C$	0.06	1.0	mA
	I _{R2}	$@V_R = Rated V_R, Pulse, T_J = 125 °C$	6	50	mA
Junction Capacitance	Ст	@V _R = 10V, T _C = 25 °C f _{SIG} = 1MHz	140	250	PF
Typical Series Inductance	Ls	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 µs, duty cycle < 2%

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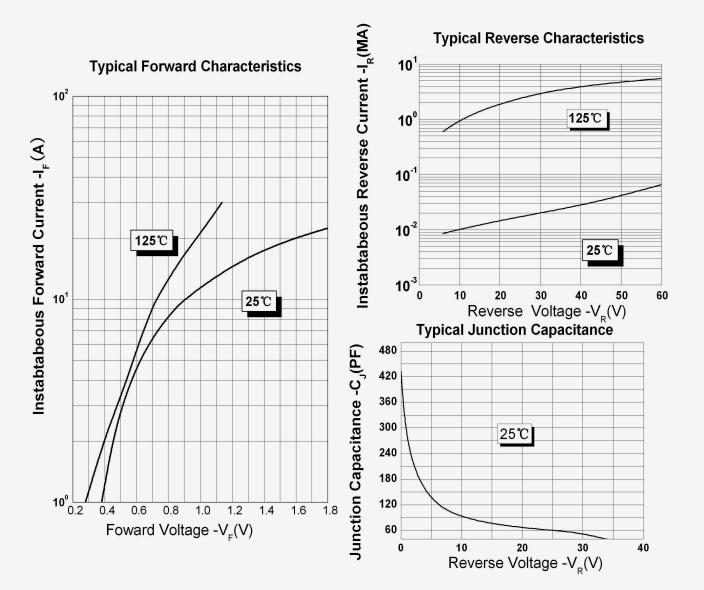
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Thermal-Mechanical Specifications:

Characteristics	Symbol	Condition	Specification	Units
Junction Temperature	TJ	-	-55 to +125	°C
Storage Temperature	T _{stg}	-	-55 to +125	°C
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	-	80	°C/W
Approximate Weight	wt	-	0.06	g
Case Style	SMA			

Ratings and Characteristics Curves





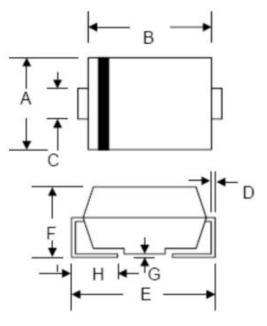
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Mechanical Dimensions SMA



SYMBOL	Millimeters		Inches		
STMIDUL	Min.	Max.	Min.	Max.	
Α	2.40	2.84	0.094	0.112	
В	3.99	4.75	0.157	0.187	
С	1.05	1.70	0.041	0.067	
D	0.15	0.51	0.006	0.020	
E	4.80	5.66	0.189	0.223	
F	1.90	2.95	0.075	0.116	
G	0.05	0.203	0.002	0.008	
н	0.76	1.52	0.030	0.600	

Ordering Information

Device	Package	Shipping
15MQ060N	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.

Marking Diagram



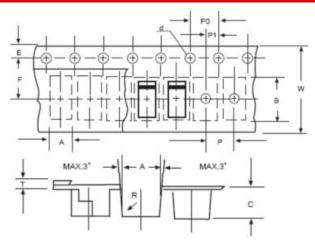
Where XXXXX is YYWWL

S = Device Type = Package Type = Forward Current (1.5A) D 15 Н = Reverse Voltage (60V) YΥ = Year WW = Week L

= Lot Number

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

Carrier Tape & Reel Specification SMA



SYMBOL	Millimeters		
STIVIDUL	Min.	Max.	
A	2.97	3.17	
В	5.70	5.90	
С	2.32	2.52	
d	1.40	1.60	
E	1.40	1.60	
F	5.60	5.70	
Р	3.90	4.10	
P0	3.90	4.10	
P1	1.90	2.10	
Т	0.25	0.35	
W	11.80	12.20	

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