

15MQ060N SCHOTTKY RECTIFIER

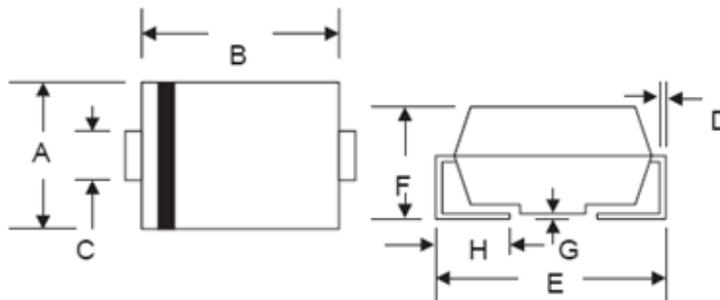
Applications:

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

Features:

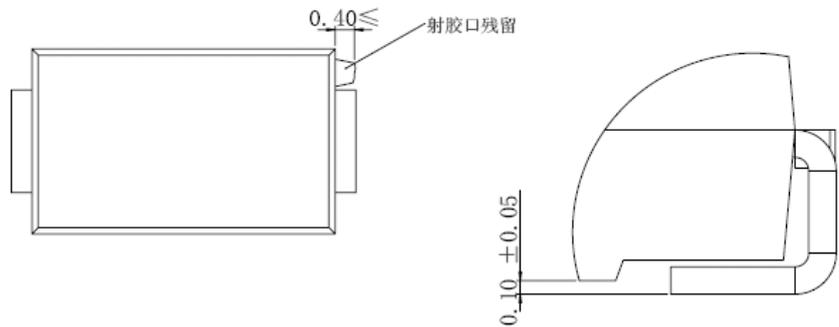
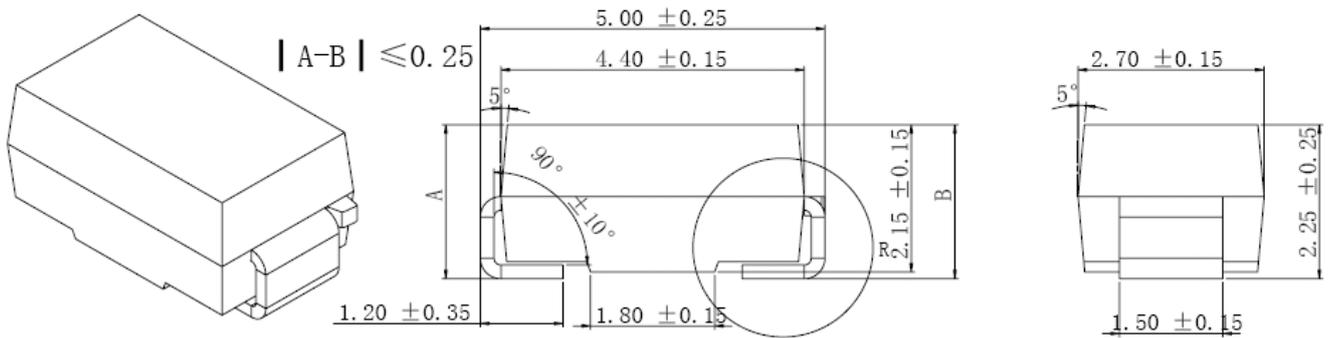
- Small foot print, surface moutable
- Low forward voltage drop
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Dimensions (In mm / Inches):



| SMA/DO-214AC | | | | |
|--------------|-------|-------|---------|-------|
| Dim | Min | Max | Min | Max |
| A | 2.50 | 2.90 | 0.098 | 0.114 |
| B | 4.00 | 4.60 | 0.157 | 0.181 |
| C | 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 |
| H | 0.76 | 1.52 | 0.030 | 0.060 |
| | In mm | | In inch | |

OPTION 1

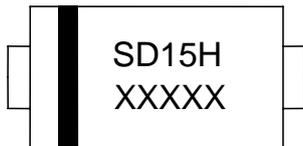


OPTION2 (JK)

SMA

Technical Data
Data Sheet N0666, Rev. -
Marking Diagram:

Green Products



Where XXXXX is YYWWL

- S = Device Type
- D = Package Type
- 15 = Forward Current (1.5A)
- H = Reverse Voltage (60V)
- YY = Year
- WW = Week
- L = Lot Number

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

Ordering Information:

| Device | Package | Shipping |
|--------|---------------|----------------|
| SD15H | 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} | - | 60 | V |
| Average Forward Current | $I_{F(AV)}$ | 50% duty cycle @ $T_L=105^{\circ}C$, rectangular wave form On PC board 9mm ² island | 2.1 | A |
| Peak One Cycle Non-Repetitive Surge Current (per leg) | I_{FSM} | 8.3 ms, half Sine pulse | 60 | A |

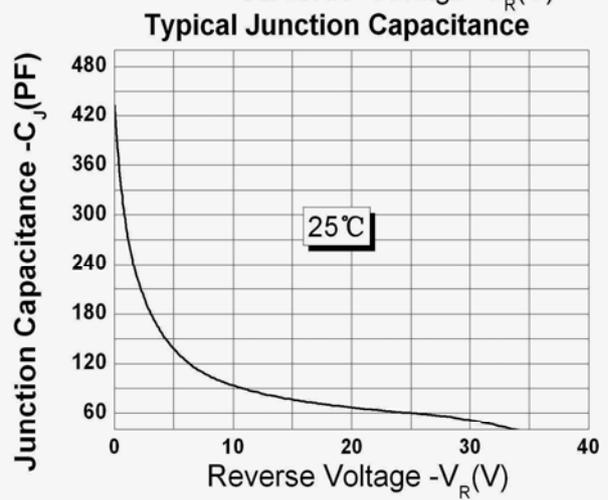
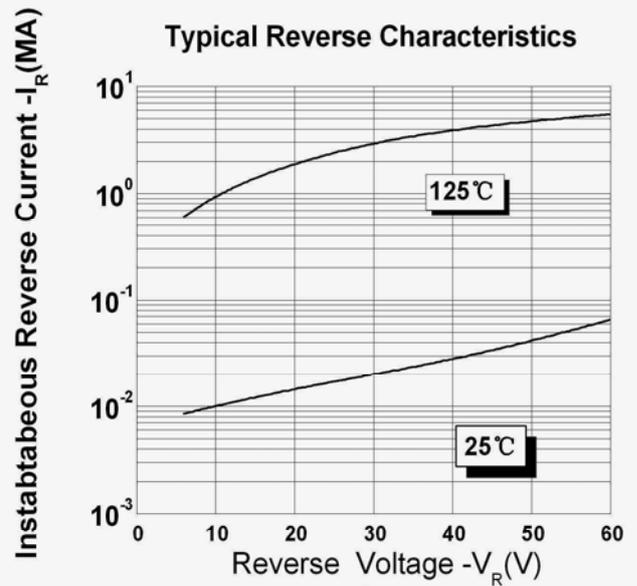
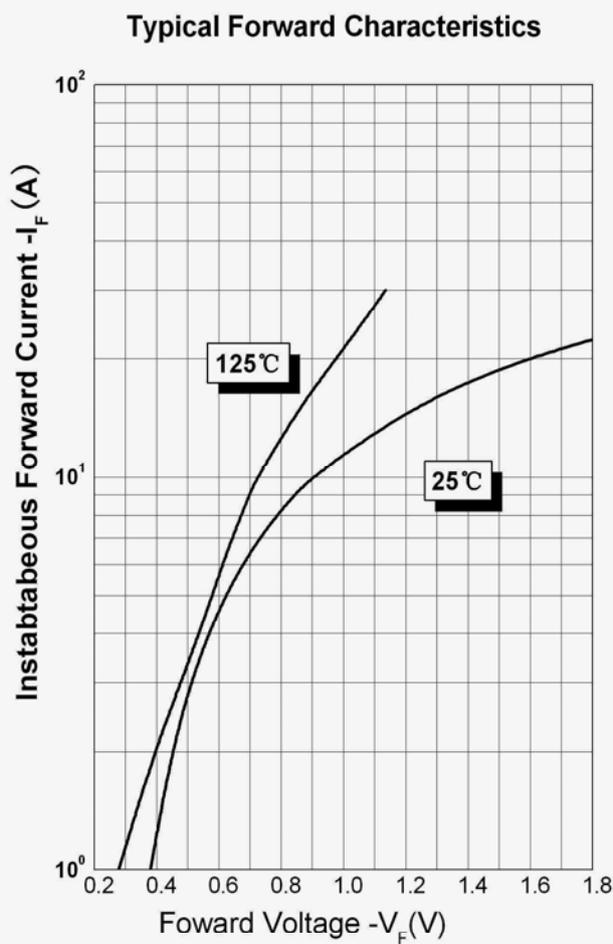
Technical Data
Data Sheet N0666, Rev. -
Green Products
Electrical Characteristics:

| Characteristics | Symbol | Condition | Max. | Units |
|------------------------|-----------------|--|--------|-------|
| Forward Voltage Drop* | V _{F1} | @ 1.5 A, Pulse, T _J = 25 °C | 0.5 | V |
| | | @ 3 A, Pulse, T _J = 25 °C | 0.6 | |
| Reverse Current * | I _{R1} | @V _R = Rated V _R , Pulse, T _J = 25 °C | 1.0 | mA |
| | I _{R2} | @V _R = Rated V _R , Pulse, T _J = 125 °C | 50 | mA |
| Junction Capacitance | C _T | @V _R = 10V, T _C = 25 °C f _{SIG} = 1MHz | 250 | PF |
| Voltage Rate of Change | dv/dt | - | 10,000 | V/μs |

* Pulse Width < 300μs, Duty Cycle < 2%

Thermal-Mechanical Specifications:

| Characteristics | Symbol | Condition | Specification | Units |
|--|------------------|--------------|---------------|-------|
| Junction Temperature | T _J | - | -55 to +125 | °C |
| Storage Temperature | T _{stg} | - | -55 to +125 | °C |
| Maximum Thermal Resistance Junction to Ambient | R _{θJA} | DC operation | 80 | °C/W |
| Approximate Weight | wt | - | 0.11 | g |
| Case Style | SMA | | | |



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