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Surface Mount Schottky Barrier Rectifier

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- Guardring for overvoltage protection
- High surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



Sub SMA





For use in high frequency inverters, freewheeling, DC/DC converters,

and polarity protection applications

TYPICAL APPLICATIONS

MECHANICAL DATA

Case: Sub SMA

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - Green compound (halogen-free)

Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: Indicated by cathode band **Weight:** 0.019 g (approximately)

| MAXIMUM RATINGS AND ELECTRICAL CHAP | RACTERISTI | CS (T _A =25°ℂ u | nless otherwis | se noted) | |
|---|-----------------------------|-----------------------------------|----------------|-----------|------|
| PARAMETER | SYMBOL | SS34L | SS36L | SS310L | UNIT |
| Marking code | | 34L | 36L | 310L | |
| Maximum repetitive peak reverse voltage | V_{RRM} | 40 | 60 | 100 | V |
| Maximum RMS voltage | V _{RMS} | 28 | 42 | 70 | V |
| Maximum DC blocking voltage | V _{DC} | 40 | 60 | 100 | V |
| Maximum average forward rectified current | I _{F(AV)} | 3 | | | Α |
| Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load | I _{FSM} | 80 | | А | |
| Maximum instantaneous forward voltage (Note 1) I _F = 3 A | V _F | 0.5 | 0.75 | 0.85 | V |
| Maximum reverse current @ rated VR T _J =25 ℃ | I _R | 0.5 0.1 | | 1 . | |
| T _J =125 °C | | 60 | 10 | 5 | mA |
| Voltage rate of change (Rated V _R) | dV/dt | 10000 | | V/µs | |
| Typical thermal resistance | $R_{	hetaJC} \ R_{	hetaJA}$ | 30 60 | | °C/W | |
| Operating junction temperature range | T _J | - 55 to +125 | - 55 t | o +150 | οС |
| Storage temperature range | T _{STG} | - 55 to +150 | | | οС |

Note 1: Pulse test with PW=300µs, 1% duty cycle



| ORDERING INFORMATION | | | | | |
|------------------------------|-----------|--------------|----------------|--------------------------------------|---------------------------------------|
| PART NO. | AEC-Q101 | PACKING CODE | GREEN COMPOUND | PACKAGE | PACKING |
| | QUALIFIED | | CODE | | |
| SS3xxL (Note1) Prefix "H" | | RU | | Sub SMA | 1,800 / 7" Plastic reel (8mm tape) |
| | RV | Suffix "G" | Sub SMA | 3,000 / 7" Plastic reel (8mm tape) | |
| | RT | | Sub SMA | 7,500 / 13" Paper reel (8mm tape) | |
| | MT | | Sub SMA | 7,500 / 13" Plastic reel (8mm tape) | |
| | RQ | | Sub SMA | 10,000 / 13" Paper reel (8mm tape) | |
| | MQ | | Sub SMA | 10,000 / 13" Plastic reel (8mm tape) | |
| | R3 | | Sub SMA | 1,800 / 7" Plastic reel (12mm tape) | |
| | RF | | Sub SMA | 3,000 / 7" Plastic reel (12mm tape) | |
| | R2 | | Sub SMA | 7,500 / 13" Paper reel (12mm tape) | |
| | | M2 |] | Sub SMA | 7,500 / 13" Plastic reel (12mm tape) |
| | | RH | | Sub SMA | 10,000 / 13" Paper reel (12mm tape) |
| | | MH | 1 1 | Sub SMA | 10,000 / 13" Plastic reel (12mm tape) |

Note 1: "xx" defines voltage from 40V (SS34L) to 100V (SS310L)

| EXAMPLE | | | | | |
|---------------|----------|-----------------------|--------------|---------------------|--------------------|
| PREFERRED P/N | PART NO. | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND CODE | DESCRIPTION |
| SS34L RU | SS34L | | RU | | |
| SS34L RUG | SS34L | | RU | G | Green compound |
| SS34LHRU | SS34L | Н | RU | | AEC-Q101 qualified |

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

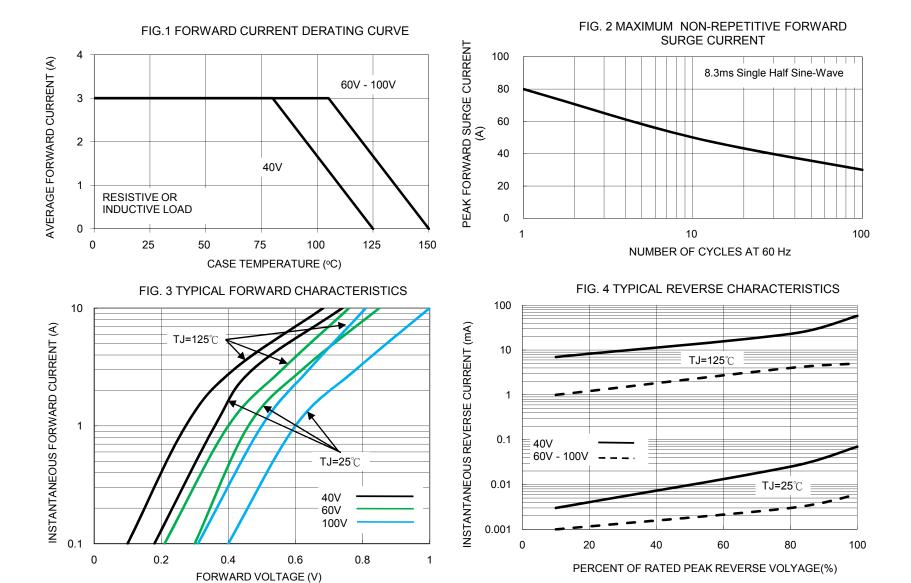
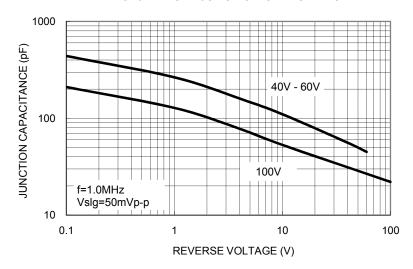
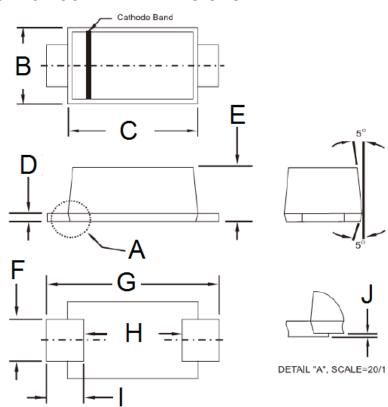




FIG. 5 TYPICAL JUNCTION CAPACITANCE

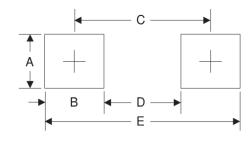


PACKAGE OUTLINE DIMENSIONS



| DIM. Unit | | (mm) | Unit (inch) | |
|-----------|------|------|-------------|-------|
| DIIVI. | Min | Max | Min | Max |
| В | 1.70 | 1.90 | 0.067 | 0.075 |
| С | 2.70 | 2.90 | 0.106 | 0.114 |
| D | 0.16 | 0.30 | 0.006 | 0.012 |
| E | 1.23 | 1.43 | 0.048 | 0.056 |
| F | 0.80 | 1.20 | 0.031 | 0.047 |
| G | 3.40 | 3.80 | 0.134 | 0.150 |
| Н | 2.45 | 2.60 | 0.096 | 0.102 |
| Ī | 0.35 | 0.85 | 0.014 | 0.033 |
| J | 0.00 | 0.10 | 0.000 | 0.004 |

SUGGESTED PAD LAYOUT



| Symbol | Unit (mm) | Unit (inch) |
|--------|-----------|-------------|
| Α | 1.4 | 0.055 |
| В | 1.2 | 0.047 |
| С | 3.1 | 0.122 |
| D | 1.9 | 0.075 |
| E | 4.3 | 0.169 |

MARKING DIAGRAM



P/N = Marking Code

G = Green Compound

YW = Date Code

F = Factory Code



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