

Dual Common Cathode Schottky Rectifier

FEATURES

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition

MECHANICAL DATA

Case: TO-247AD (TO-3P)

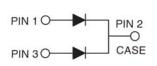
Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102 Meet JESD 201 class 1A whisker test with prefix "H" on packing code meet JESD 201 class 2 whisker test **Polarity:** As marked **Mounting torque:** 10 in-lbs maximum

Weight: 6.1 g (approximately)





TO-247AD (TO-3P)





| MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25 $^{\circ}$ C unless otherwise noted) | | | | | | | | | | |
|---|--------------------|---------------------------|------------|------------|------------|------------------|------------|-------------|-------------|------|
| PARAMETER | SYMBOL | SR 3020 | SR 3030 | SR 3040 | SR 3050 | SR 3060 | SR 3090 | SR 30100 | SR 30150 | UNIT |
| | | РТ | РТ | РТ | РТ | РТ | РТ | РТ | РТ | |
| Maximum repetitive peak reverse voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | 90 | 100 | 150 | V |
| Maximum RMS voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | 63 | 70 | 105 | V |
| Maximum DC blocking voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | 90 | 100 | 150 | V |
| Maximum average forward rectified current | I _{F(AV)} | 30 A | | | | А | | | | |
| Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load | I _{FSM} | 300 | | | | А | | | | |
| Maximum instantaneous forward voltage (Note 1) I_F = 15 A | V _F | 0.55 0.70 | | 0. | 90 | 1.00 | V | | | |
| Maximum reverse current @ rated VR T _J =25 $^\circ$ C | | 1.0 0.5 | | | | | | | | |
| T _J =100 ℃ | I _R | 20 15 | | | 5 | 10 | | | mA | |
| Typical thermal resistance | R _{θJC} | 1.5 | | | | ^o C/W | | | | |
| Operating junction temperature range | TJ | - 55 to +125 - 55 to +150 | | | °C | | | | | |
| Storage temperature range | T _{STG} | - 55 to +150 | | | °C | | | | | |
| Nets 4. Deles to the DWL 000 as 40% states and | - | | | | | | | | | |

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



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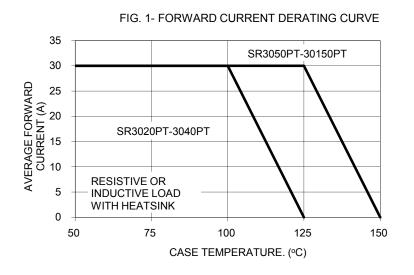
| ORDERING INFORMATION | | | | | | | |
|--|--------------|----|------------|---------|-----------|--|--|
| PART NO. | PACKING CODE | | | PACKAGE | PACKING | | |
| | QUALIFIED | | CODE | | | | |
| SR30xxPT (Note 1) | Prefix "H" | CO | Suffix "G" | TO-3P | 30 / Tube | | |
| Note 1: "yy" defines voltage from 201/ (SD2020DT) to 1501/ (SD20150DT) | | | | | | | |

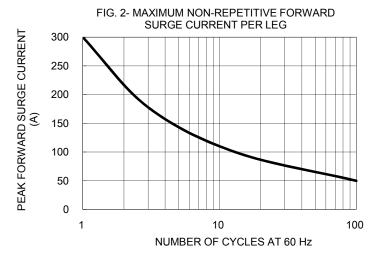
Note 1: "xx" defines voltage from 20V (SR3020PT) to 150V (SR30150PT)

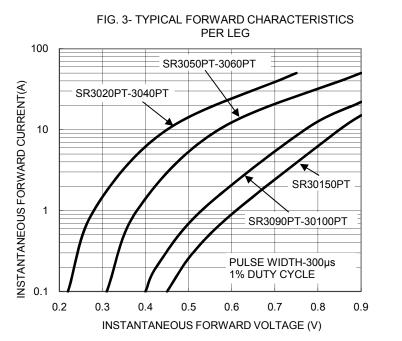
| EXAMPLE | | | | | | | |
|---------------|----------|-----------------------|--------------|------------------------|--------------------|--|--|
| PREFERRED P/N | PART NO. | AEC-Q101 QUALIFIED | PACKING CODE | GREEN COMPOUND CODE | DESCRIPTION | | |
| SR3060PT C0 | SR3060PT | | C0 | | | | |
| SR3060PT C0G | SR3060PT | | C0 | G | Green compound | | |
| SR3060PTHC0 | SR3060PT | Н | C0 | | AEC-Q101 qualified | | |

RATINGS AND CHARACTERISTICS CURVES

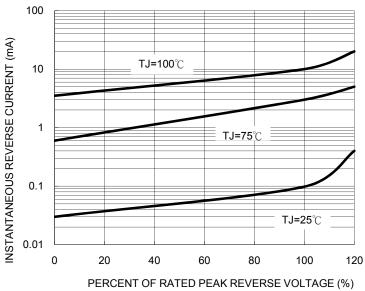
(TA=25°C unless otherwise noted)





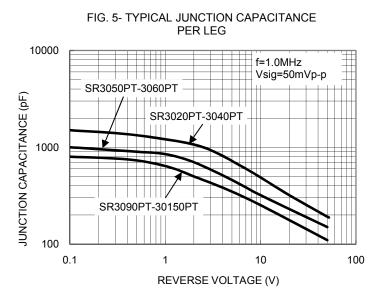


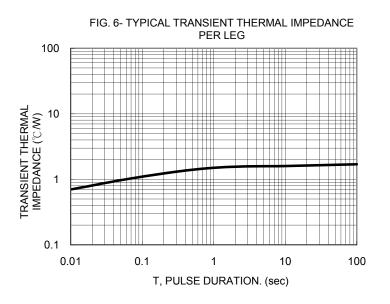




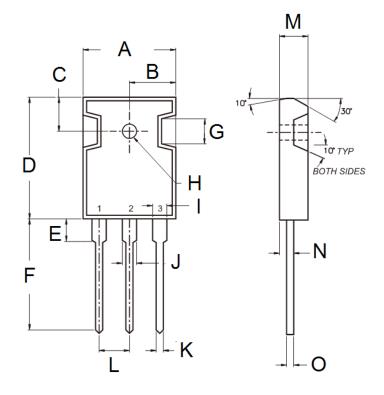


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PACKAGE OUTLINE DIMENSIONS



P/N

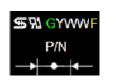
YWW

G

F

| DIM. | Unit | (mm) | Unit (inch) | | | |
|--------|-------|-------|-------------|-------|--|--|
| Dilvi. | Min | Max | Min | Max | | |
| Α | 15.90 | 16.40 | 0.626 | 0.646 | | |
| В | 7.90 | 8.20 | 0.311 | 0.323 | | |
| С | 5.70 | 6.20 | 0.224 | 0.244 | | |
| D | 20.80 | 21.30 | 0.819 | 0.839 | | |
| E | 3.50 | 4.10 | 0.138 | 0.161 | | |
| F | 19.70 | 20.20 | 0.776 | 0.795 | | |
| G | - | 4.30 | - | 0.169 | | |
| Н | 2.90 | 3.40 | 0.114 | 0.134 | | |
| I | 1.93 | 2.18 | 0.076 | 0.086 | | |
| J | 2.97 | 3.22 | 0.117 | 0.127 | | |
| К | 1.12 | 1.22 | 0.044 | 0.048 | | |
| L | 5.20 | 5.70 | 0.205 | 0.224 | | |
| М | 4.90 | 5.16 | 0.193 | 0.203 | | |
| Ν | 2.70 | 3.00 | 0.106 | 0.118 | | |
| 0 | 0.51 | 0.76 | 0.020 | 0.030 | | |

MARKING DIAGRAM



= Marking Code

= Green Compound

= Date Code

= Factory Code



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