

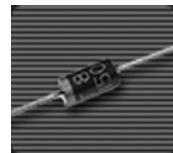


1SG1885, 1SG1887, 1SG1888

General Purpose Plastic Rectifiers
Reverse Voltage 100 to 600 Volts Forward Current 1.2 Amperes

Features

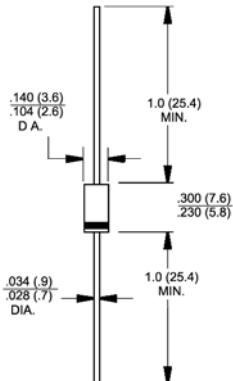
- ◆ Low cost
- ◆ Low leakage
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ T_j is 150°C (Max.) and T_{STG} is 175°C (Max.) with PI glue



DO-204AC (DO-15)

Mechanical Data

- ◆ Case : JEDEC DO-204AC (DO-15) molded plastic
- ◆ Epoxy: UL 94V-O rate flame retardant
- ◆ Lead: MIL-STD-202E method 208C guaranteed
- ◆ Mounting position: Any
- ◆ Weight: 0.014 ounce, 0.39 gram



Dimensions in inches and (millimeters)

Maximum Ratings

($T_A=25^\circ\text{C}$)

| Characteristics | Symbols | Ratings | Units |
|--|-------------|--------------------------|-------|
| Repetitive peak reverse voltage 1SG1885 1SG1887 1SG1888 | V_{RRM} | 100 400 600 | Volts |
| Average forward current ($T_a=60^\circ\text{C}$) | $I_{F(AV)}$ | 1.2 | Amps |
| Peak one cycle surge forward current (Non repetitive) | I_{FSM} | 100 (50Hz) 110 (60Hz) | Amps |
| Junction temperature | T_j | -40 to +125 | °C |
| Storage temperature range | T_{STG} | -40 to +150 | °C |

Electrical Characteristics

($T_A=25^\circ\text{C}$)

| Characteristics | Symbols | Test condition | Min. | Typ. | Max. | Units |
|--|---------------|------------------------|------|------|------|-------|
| Peak forward voltage | V_{FM} | $I_{FM}=5\text{A}$ | - | - | 1.0 | Volt |
| Repetitive peak reverse current | I_{RRM} | $V_{RRM}=\text{Rated}$ | - | - | 10 | uA |
| Thermal resistance (junction to ambient) | $R_{th(j-a)}$ | DC | - | - | 100 | °C/W |

RATINGS AND CHARACTERISTIC CURVES

