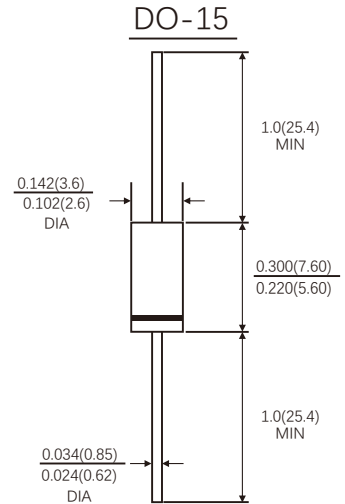
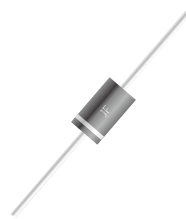


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,low forward voltage drop
- High surge capability
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.014ounce, 0.39 gram

TYPICAL APPLICATIONS

For use in low voltage ,high frequency inverters ,DC/DC converters, free wheeling ,and polarity protection applications

MAXIMUM RATINGS

(Ratings at 25°C ambient temperature unless otherwise specified)

| PRIMARY CHARACTERISTICS | |
|--|-------|
| I _{F(AV)} | 2.0A |
| V _{RRM} | 100V |
| I _{FSM} | 50A |
| V _F at I _F =2.0A,Typ | 0.71V |
| T _{JMAX} | 150°C |

| Parameter | Symbol | Value | Unit |
|--|--------------------|------------|------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 100 | V |
| Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1) | I _{F(AV)} | 2.0 | A |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated TL) | I _{FSM} | 50 | A |
| Operating junction temperature range | T _J | -55 to+150 | °C |
| Storage temperature range | T _{stg} | -55 to+150 | °C |

ELECTRICAL CHARACTERISTICS (T_A=25°C Unless otherwise noted)

| Parameter | Test Conditions | | Symbol | Typ. | Max. | Unit |
|------------------------------|----------------------|-----------------------|------------------------------|------|------|------|
| Instaneous forward voltage | I _F =2.0A | T _J =25°C | V _F ¹⁾ | 0.71 | 0.75 | V |
| | | T _J =100°C | | 0.59 | - | |
| | | T _J =125°C | | 0.55 | - | |
| Reverse current | V _R =100V | T _J =25°C | I _R ²⁾ | - | 5.0 | μA |
| | | T _J =100°C | | - | 0.5 | mA |
| | | T _J =125°C | | - | 1.5 | |
| Typical junction capacitance | 4V,1MHz | | C _J | 91 | | pF |

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle

2.Pulse test: pulse width≤40ms

THERMAL CHARACTERISTICS

| Parameter | Symbol | SR2100L | Unit |
|--|------------------|---------|------|
| Typical thermal resistance ³⁾ | R _{θJA} | 35.0 | °C/W |
| | R _{θJL} | 15.0 | |

3.Thermal resistance from junction to lead vertical P.C.B. mounted , 0.375"(9.5mm)lead length

AVAILABLE PACK INFORMATION

| Product code | Pack | Box Size L*W*H(mm) | Quantity(pcs/box) | Carton SizeL*W*H(mm) | Quantity(box/carton) |
|---------------|------|--------------------|-------------------|----------------------|----------------------|
| SR2100L-DO-15 | B/P | 200*80*21 | 500 | 440*210*250 | 50 |
| SR2100L-DO-15 | T/B | 270*77*145 | 3000 | 410*275*325 | 10 |

RATINGS AND CHARACTERISTIC OF SR2100L

FIG.1-FORWARD CURRENT DERATING CURVE

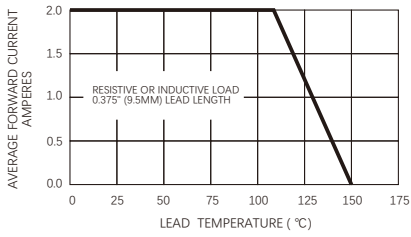


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

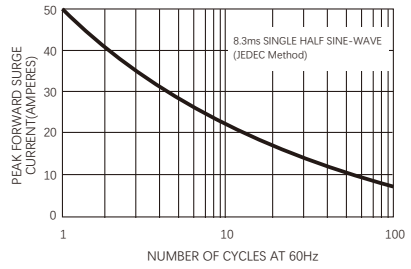


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

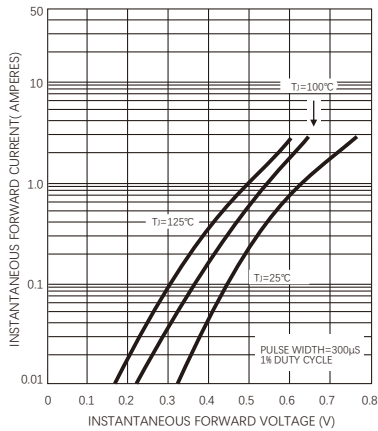


FIG.4-TYPICAL REVERSE CHARACTERISTICS

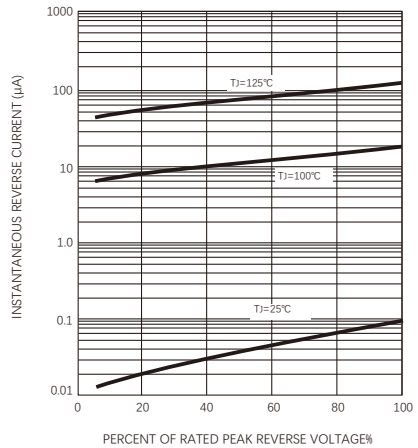
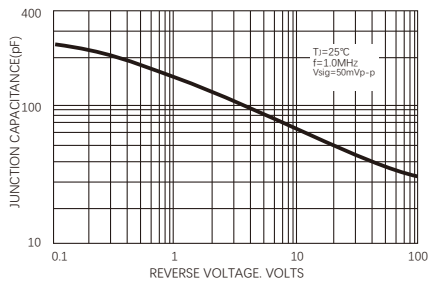


FIG.5-TYPICAL JUNCTION CAPACITANCE



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