

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

DO-214AC (SMA)



MECHANICAL DATA

- Case: JEDEC SMA(DO-214AC) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram

Marking :

JF:Logo

xxxx:Date code

SS210L:Type

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)

| Parameter | Symbol | Value | Unit |
|--|-------------|------------|------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 100 | V |
| Maximum average forward rectified current (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} | 80 | A |
| Operating junction temperature range | T_J | -55 to+150 | °C |
| Storage temperature range | T_{stg} | -55 to+150 | °C |

RATINGS AND CHARACTERISTIC OF SS210L

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

| Parameter | Test Conditions | | Symbol | TYP. | MAX. | Unit |
|------------------------------|----------------------|-----------------------|------------------------------|------|------|------|
| Instaneous forward voltage | I _F =2.0A | T _A =25°C | V _F ¹⁾ | 0.71 | 0.75 | V |
| | | T _A =100°C | | 0.59 | -- | |
| | | T _A =125°C | | 0.55 | -- | |
| Reverse current | V _R =100V | T _A =25°C | I _R ²⁾ | -- | 5 | μA |
| | | T _A =100°C | | -- | 0.5 | mA |
| | | T _A =125°C | | -- | 1.5 | |
| Typical junction capacitance | 4V,1MHz | | C _J | 100 | | pF |

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

2.Pulse test: pulse width≤40ms

THERMAL CHARACTERISTICS

| Parameter | Symbol | SS210L | Unit |
|--|------------------|--------|------|
| Typical thermal resistance ³⁾ | R _{θJA} | 88.0 | °C/W |
| | R _{θJL} | 28.0 | |

3. Unit mounted on PC board with 5.0mm×5.0mm (0.013mm thick) copper pads as heat sink

AVAILABLE PACK INFORMATION

| Product code | Pack | Reel Size (mm) | Quantity (pcs/reel) | Box Size L×W×H (mm) | Quantity (reel/box) | Carton Size L×W×H (mm) | Quantity (box/carton) |
|--------------|------|----------------|---------------------|---------------------|---------------------|------------------------|-----------------------|
| SS210L-SMA | T/R | Φ330 | 7500 | 330×35×333 | 2 | 364×364×360 | 8 |

RATINGS AND CHARACTERISTIC OF SS210L

FIG.1-FORWARD CURRENT DERATING CURVE

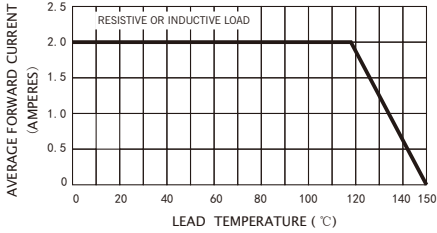


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

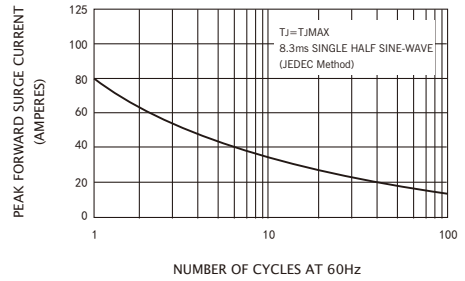


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

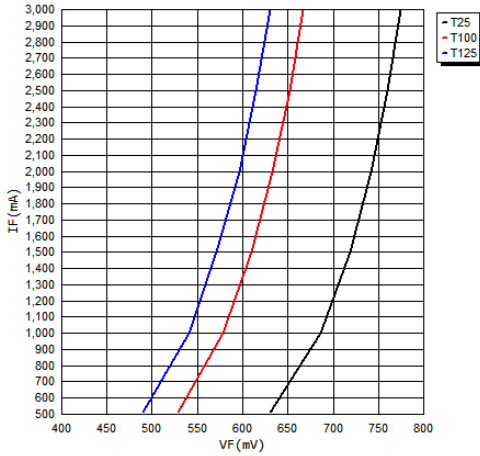


FIG.4-TYPICAL REVERSE CHARACTERISTICS

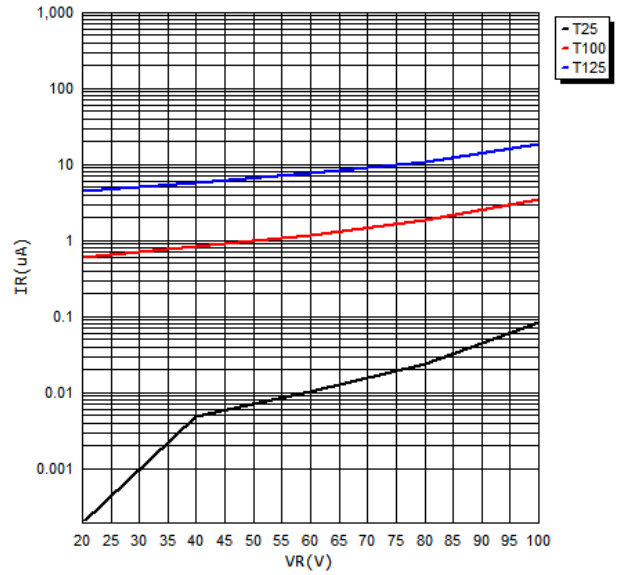
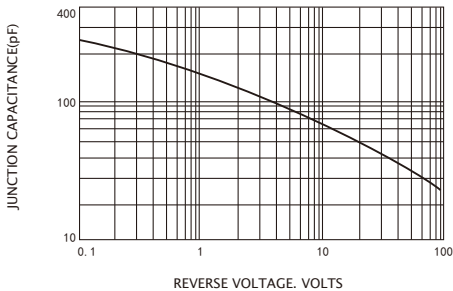


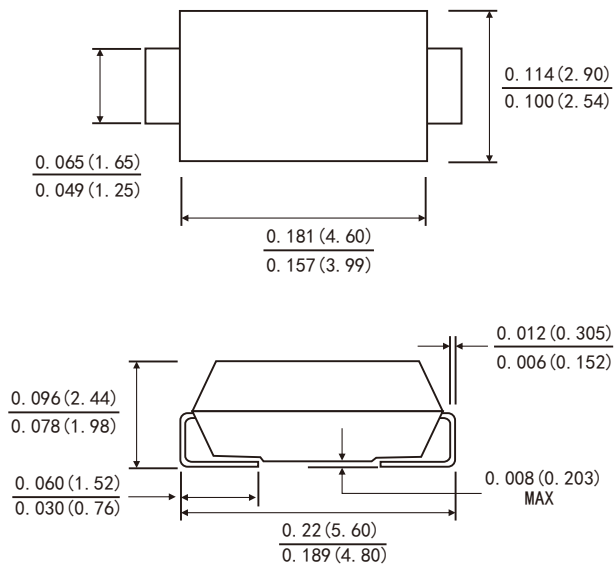
FIG.5-TYPICAL JUNCTION CAPACITANCE



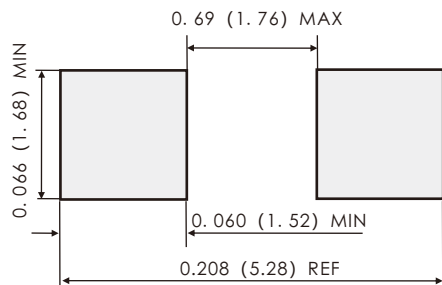
SS210L

PACKAGE OUTLINE DIMENSIONS

SMA(DO-214AC)



Suggested PAD Layout



Dimensions in inches and (millimeters)

FriendshipReminder

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