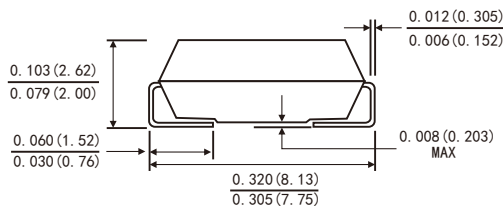
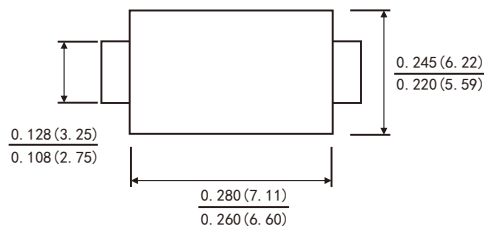


### FEATURES

- 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
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed:260° C/10 seconds
- Component in accordance to RoHS 2015/863/EU



### SMC(DO-214AB)



Dimensions in inches and (millimeters)

### MECHANICAL DATA

- Case: JEDEC SMC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

| Parameters   |                    | Symbols                            | Value        | Units         |
|--|--------------------|------------------------------------|--------------|---------------|
| Maximum repetitive peak reverse voltage  |                    | $V_{RRM}$                          | 60           | Volts         |
| Maximum RMS voltage  |                    | $V_{RMS}$                          | 42           | Volts         |
| Maximum DC blocking voltage  |                    | $V_{DC}$                           | 60           | Volts         |
| Maximum average forward rectified current See Fig.1  |                    | $I_{AV}$                           | 10           | Amps          |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) |                    | $I_{FSM}$                          | 150          | Amps          |
| Maximum instantaneous forward voltage at 10.0 A  |                    | $V_F$                              | 0.75         | Volts         |
| Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)                       | $T_J=25^{\circ}C$  | $I_R$                              | 50           | $\mu A$       |
|  | $T_J=125^{\circ}C$ |                                    | 12           | mA            |
| Typical thermal resistance (Note 2)  |                    | $R_{\theta JA}$<br>$R_{\theta JL}$ | 55.0<br>17.0 | $^{\circ}C/W$ |
| Operating junction temperature range   |                    | $T_J$                              | -55 to+150   | $^{\circ}C$   |
| Storage temperature range  |                    | $T_{STG}$                          | -55 to+150   | $^{\circ}C$   |

Notes: 1.Pulse test: 300 $\mu s$  pulse width,1% duty cycle  
2.Thermal resistance from junction to case

FIG.1-FORWARD CURRENT DERATING CURVE

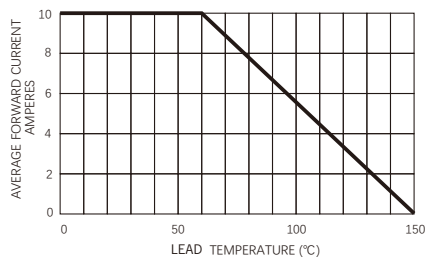


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

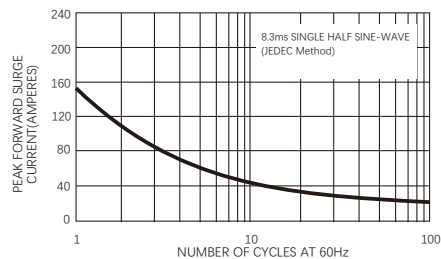


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

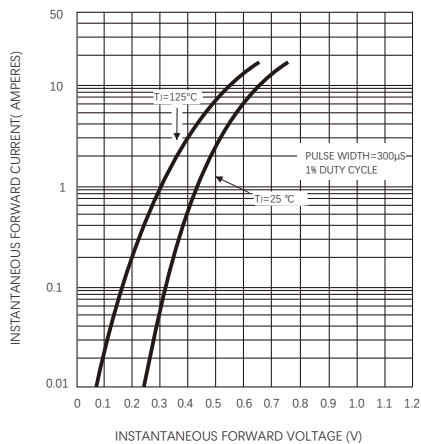
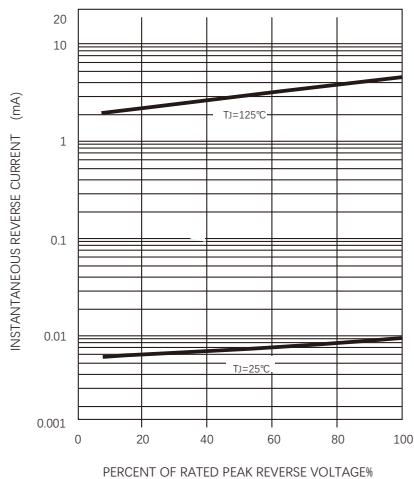


FIG.4-TYPICAL REVERSE CHARACTERISTICS



## Friendship Reminder

- JiNan JingHeng(hereinafter referred to as JH) reserves the right to make changes to this document and its products and specifications at anytime without notice.
- Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- JH makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does JH assume any liability for application assistance or customer product design.
- JH does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.
- No license is granted by implication or otherwise under any intellectual property rights of JH.
- JH's products are not authorized for use as critical components in life support devices or systems without express written approval of JH.