

S3A~S3M

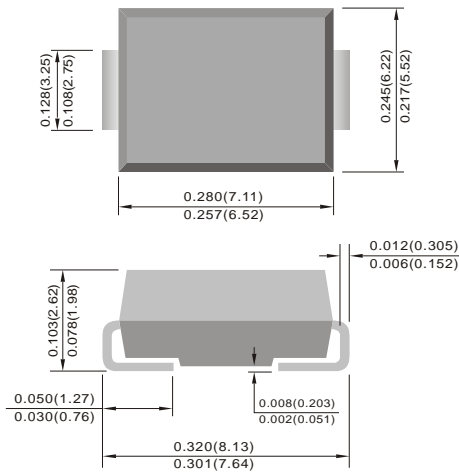
SURFACE MOUNT RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 3.0 Amperes



SMC / DO-214AB

Unit: inch (mm)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Glass passivated junction
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: JEDEC SMC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Indicated by cathode band
- Standard packaging: 16mm tape (EIA-481)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase , half wave ,60Hz, resistive or inductive load. For capacitive load , derate current by 20%.

PARAMETER	SYMBOL	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_L = 75^\circ C$	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	100							A
Maximum Forward Voltage at 3.0A	V_F	1.2							V
Maximum DC Reverse Current at $T_j=25^\circ C$ Rated DC Blocking Voltage $T_j=125^\circ C$	I_R	5 250							μA
Maximum Junction capacitance (Note 1)	C_J	53							pF
Typical Junction Resistance(Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	13 47							$^\circ C / W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ C$

NOTES:

- 1.Measured at 1.0 MHZ and applied Vr=4.0 volts.
- 2.8.0mm²(.013mm thick)land areas.

S3A~S3M

RATING AND CHARACTERISTIC CURVES

