

Major Ratings and Characteristics

$I_{F(AV)}$	3.0 A
V_{RRM}	50 V to 1000 V
I_{FSM}	100 A
I_R	5 μ A
V_F	1.1 V
T_j max.	150 °C



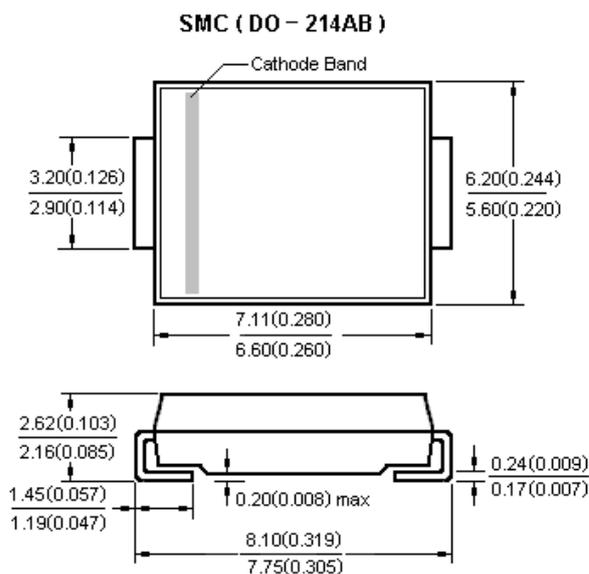
SMC (DO - 214AB)

Features

- Low profile space
- Ideal for automated placement
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

- Case: JEDEC DO-214AB molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end



Dimensions in millimeters and (inches)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

($T_A = 25\text{ °C}$ unless otherwise noted)

	Symbol	(S3A)	(S3B)	(S3D)	(S3G)	(S3J)	(S3K)	(S3M)	UNIT
Maximum repetitive 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	$I_{F(AV)}$	3							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	100							A
Maximum instantaneous forward voltage at 3.0A	V_F	1.1							V
Maximum DC reverse current $T_A = 25\text{ °C}$ at Rated DC blocking voltage $T_A = 125\text{ °C}$	I_R	5.0							μ A
		50							μ A
Typical junction capacitance at 4.0 V ,1MHz	C_J	60							p F
Thermal resistance from junction to ambient	$R_{\theta JA}$	50							°C/ W
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							°C

(S3A~S3M) SMC

Surface Mount Standard Rectifiers



Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

