

Fast Recovery rectifiers

Major Ratings and Characteristics

I _{F(AV)}	3.0 A
V _{RRM}	50 to 1000V
I _{FSM}	100 A
t _{rr}	150nS,250S,500S
V _F	1.3 V
T _j max.	150 °C



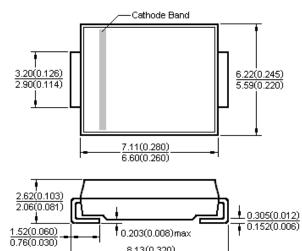
Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Fast switching for high efficiency
- 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

SMC (DO - 214AB)



Dimentsions in millimeters and (inchs)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(T_A = 25 °C unless otherwise noted)

(1 _A - 25 Curiless otherwise noted)											
	Symbol	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	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							Α		
Peak forward surge current 8.3 ms single half sinewave superimposed on rated load	I _{FSM}	100						Α			
Maximum instantaneous forward voltage at 3.0A	V _F	1.3						V			
Maximum DC reverse current $T_A = 25 ^{\circ}C$ at Rated DC blocking voltage $T_A = 125 ^{\circ}C$	I _R	5.0 50									
Maximum reverse recovery time at $I_F = 0.5 \text{ A}$, $I_R = 1.0 \text{ A}$, $I_{rr} = 0.25 \text{ A}$	t _{rr}	150 250 5			50	00	nS				
Typical junction capacitance at 4.0 V ,1MHz	С	30						pF			
Thermal resistance from junction to Lead	$R_{\theta JL}$	35							°C/W		
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150							$^{\circ}$		



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Characteristic Curves (T_A=25 ℃ unless otherwise noted)

