

Major Ratings and Characteristics

I _{F(AV)}	1.0 A				
V _{RRM}	50 V to 1000 V				
I _{FSM}	30 A				
I _R	5 μΑ				
V _F	1.1 V				
T _j max.	150 °C				

Features

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

Mechanical Date

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

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)

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Items	Symbol	S1A	S1B	S1D	S1G	S1J	S1K	S1M	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)}	1									
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	30							А		
Maximum instantaneous forwad voltage at 1.0A	V _F	1.1							V		
Maximum DC reverse current $T_A = 25 \degree C$		5.0							μA		
at Rated DC blocking voltage $T_A = 125^{\circ}C$	I _R	50							μA		
Typical junction capacitance at 4.0 V ,1MHz	CJ	15							рF		
Thermal resistance from junction to ambient	R _{0JA}	75							°C/ W		
Operating junction and storage temperature range	Τ _J , Τ _{STG}	–55 to +150							°C		

0.90(0.035)





SMA (DO-214AC)

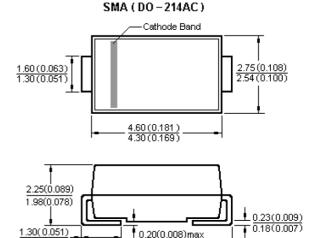


Image: Teacher state stat

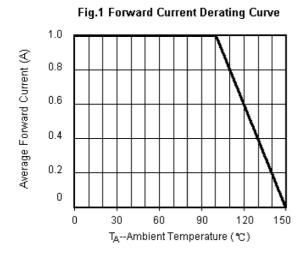
5.25(0.207)

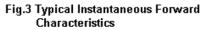




Surface Mount Standard Rectifiers

Characteristic Curves (T_A=25 °C unless otherwise noted)





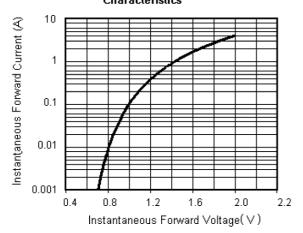
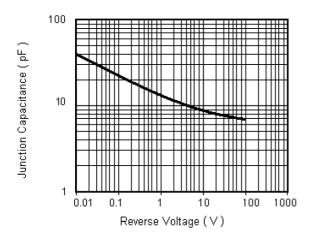


Fig.5 Typical Junction Capacitance



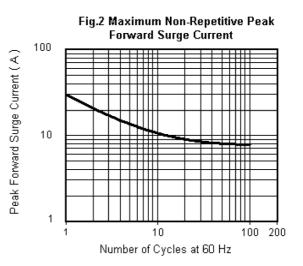


Fig.4 Typical Reverse Leakage Characteristics

