

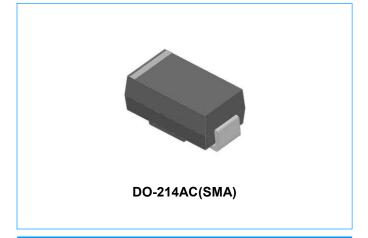


Schottky rectifier

SS22A~SS220A 2A 20 to 200V DO-214AC(SMA)

Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High 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-214AC molded plastic
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end

Major Ratings and Characteristics

I _{F(AV)}	2.0A			
V _{RRM}	20 V to 200 V			
I _{FSM}	50A			
V _F	0.50V, 0.55V, 0.70V, 0.85V,0.95V			
T _{j max} .	125℃			

Maximum Ratings & Thermal Characteristics (T_A = 25℃ unless otherwise noted)

Items	Symbol	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS210A	SS215A	SS220A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	٧
Maximum average forward rectified current	I _{F(AV)}		2							А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}		50							A	
Voltage rate of change (rated V _R)	dv/dt	10000							V/µs		
Thermal resistance from junction to lead ⁽¹⁾	R _{0JL}	35							°C/W		
Operating junction and storage temperature range	T _J ,T _{STG}	-65 to +125						${\mathbb C}$			

Note 1: Mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.





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Electrical Characteristics (T_A = 25°C unless otherwise noted)

Items	Test conditions		Symbol	SS22A	SS23A~ SS24A	SS25A~ SS26A	SS28A~ SS210A	SS215A~ SS220A	Unit
Instantaneous forward voltage	I _F =2.0A ⁽²⁾		V _F	0.50	0.55	0.70	0.85	0.95	٧
Reverse current	V _R =V _{DC}	T _j =25℃ T _j =100℃	I _R	0.5 5.0					mA

Note 2: Pulse test:300µs pulse width,1% duty cycle.

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

Fig1. Forward Current Derating Curve

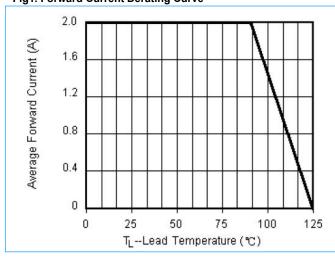


Fig2. Maximum Non-Repetitive Peak Forward Surge Current

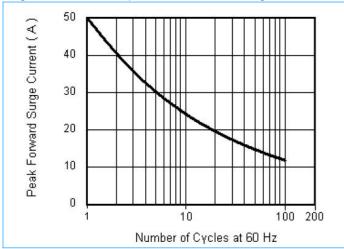


Fig3. Typical Instantaneous Forward Characteristics

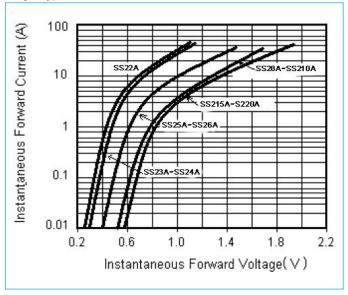
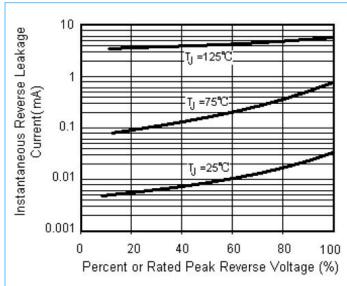


Fig4. Typical Reverse Leakage Characteristics



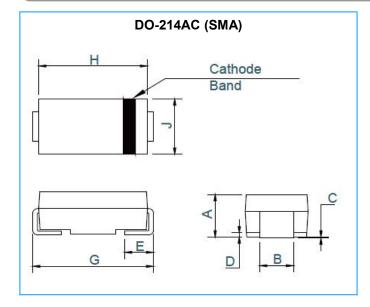




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Dimensions



Dimensions									
Div	Inc	hes	Millimeters						
Dim	Min	Max	Min	Max					
Α	0.067	0.093	1.7	2.36					
В	0.049	0.067	1.25	1.7					
С	0.002	0.008	0.05	0.2					
D		0.02		0.51					
E	0.03	0.06	0.76	1.52					
G	0.185	0.209	4.7	5.31					
Н	0.157	0.185	4	4.7					
J	0.086	0.11	2.18	2.8					

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