

SS12 THRU SS110 20V-100V 1.0A

Kernelbas semiconductor

DO-214AC(SMA)



- Schottky barrier rectifier
- Guardring protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance

Mechanical Data

Case: SMA molded plastic body Polarity: Color band denotes cathode end

Mounting position: ANY

Weight: 0.002 ounces, 0.064 gram





Dimensions in inches and (millimeters)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at ${}^{2}\!\!\mathcal{C}$ ambient temperature unless otherwise specified

Device marking code		SS12	SS13	SS14	SS15	SS16	SS18	SS19	SS110	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	90	100	V
Maximum RMS voltage	V_{RWS}	14	21	28	35	42	56	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	90	100	V
Maximum average forward rectified current at TL=90 $^\circ\!$	I _{F(AV)}	1.0							А	
Peak forward surge current 8.3ms single half-sine-wave	I _{FSM}	40							А	
Maximum instantaneous forward voltage at I _{FM} =1.0A (NOTE1)	V_{F}	0.50 0.75 0.85						V		
Maximum DC reverse current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=125^{\circ}C$	I _R	0.2 0.5 6.0 5.0						m A		
Maximum thermal resistance	R _{θ JL}	28							°C/W	
Operating temperature range	TJ	-55 +125							°C	
Storage temperature range	T _{STG}	-55 +150							°C	

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %







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