SS32 ~ SS310

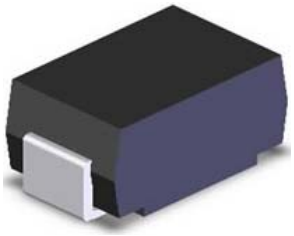
Surface Mount Schottky Barrier Rectifiers

Features

- For surface mounted applications
- Metal silicon junction,majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250℃/10 seconds at terminals
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0

Mechanical Date

- Case: JEDEC DO-214AC molded plastic body
- Terminals: leads solderable per MIL-STD-750,Method 2026
- Mounting Position: Any
- Polarity: Color band denotes cathode end
- Weight: 0.005 ounce, 0.138 grams



SMA（DO-214AC）

Major Ratings and Characteristics

$I_{F(AV)}$	3.0 A
V_{RRM}	20V to 200V
I_{FSM}	60 A
V_F	0.55V, 0.70V, 0.85V
T_j (max.)	125 ℃

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

Items	Symbol	SS32	SS33	SS34	SS35	SS36	SS38	SS310	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	
Maximum average forward rectified current	$I_{F(AV)}$	3.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	60							
Thermal resistance from junction to ambient (1)	$R_{\theta JA}$	55							℃/W
Operating junction and storage temperature range	T_J	-65 to +125							℃
Storage temperature range	T_{STG}	-65 to +125							

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

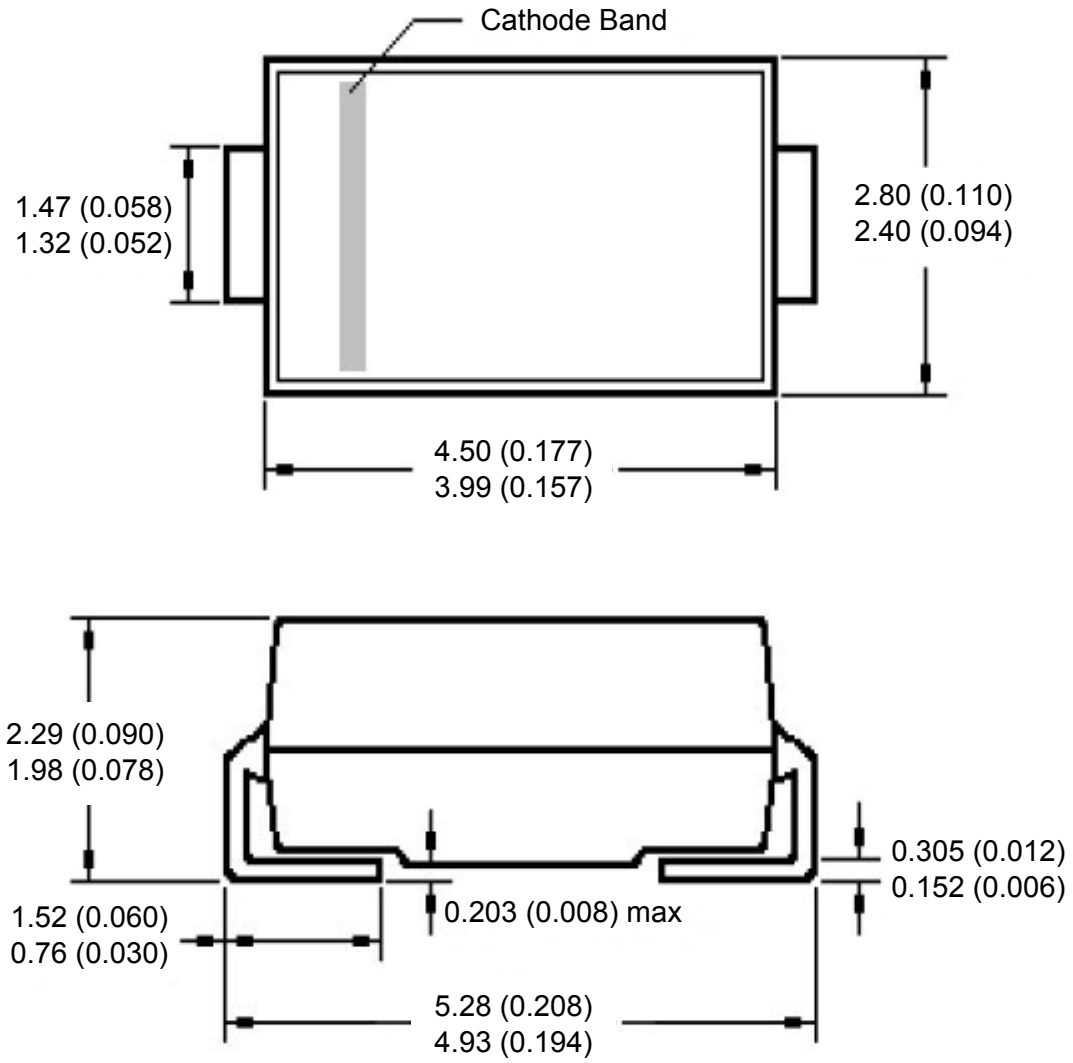
■ Electrical Characteristics (T_A=25℃, unless otherwise noted)

Items	Test conditions		Symbol	SS32~SS34	SS35~SS36	SS38~SS310	UNIT
Instantaneous forward It	I_F=3.0A (2)		V_F	0.55	0.70	0.85	V
Reverse current	V_R=V_{DC}	T_A=25℃	I_R	0.25			mA
		T_A=100℃		50	25		
Typical junction capacitance	4.0V, 1MHz		C_J	500	300		pF

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

Package Outline

SMA
DO-214AC



Dimensions in millimeters and (inches)

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