Onsemi

Surface Mount Schottky Barrier Rectifier

SSA210

Features

- UL Flammability 94 V-0 Classification
- MSL 1
- RoHS Compliant / Green Mold Compound
- Industrial Device Qualified per AEC-Q101 Standards *see authorized use policy
- This is a Pb-Free and Halid Free Device

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Symbol	Rating	Value	Unit	
V _{RRM}	Recurrent Peak Reverse Voltage	100	V	
V _{RMS}	RMS Reverse Voltage	70	V	
V _{DC}	DC Blocking Voltage	100	V	
I _{F(AV)}	Average Forward Current	2	А	
I _{FSM}	Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	50	A	
TJ	Operating Junction Temperature Range	–55 to +150	°C	
T _{STG}	Storage Temperature Range	–55 to +150	°C	

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL CHARACTERISTICS

Symbol	Parameter	Ratings	Unit
Ψ_{JL}	Typical Thermal Characteristics, Junction-to-Lead (Note 2)	30	°C/W
R_{\thetaJA}	Typical Thermal Resistance, Junction-to-Ambient	180	°C/W

Per JESD51-3 recommended thermal test board. Device mounted on FR-4 1. PCB, board size = 76.2 mm x 114.3 mm.

2. Thermocouple soldered at cathode lead.

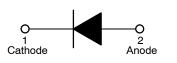
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _F	Forward Voltage (Note 3)	I _F = 2.0 A	-	-	0.8	V
I _R	Reverse Current	V _R = 100 V	-	-	0.05	mA
		V_{R} = 100 V, T_{A} = 100 °C	-	-	20	mA
Trr	Reverse Recovery Time	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A}, I_{rr} = 0.25 \text{ A}$	_	8.02	-	ns

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

3. Pulse test with Pulse width = 300 μs, 1% duty cycle.

SMA CASE 403AE



MARKING DIAGRAM



(Color Band Denotes Cathode)

А	= Assembly Location
Υ	= Year
WW	= Work Week
SSA210	= Specific Device Code

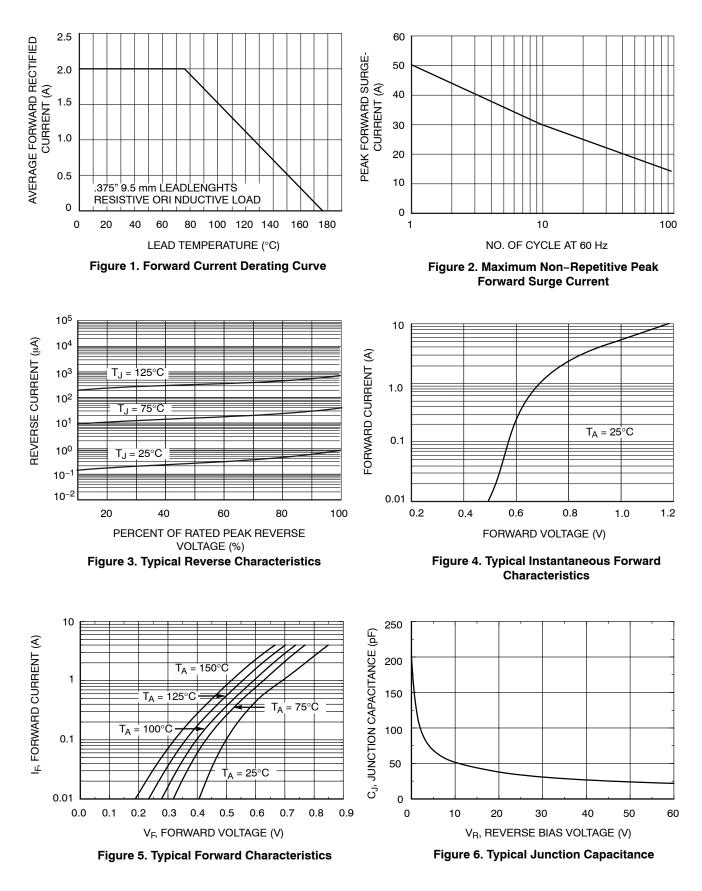
ORDERING INFORMATION

Device	Package	Shipping [†]
SSA210	SMA (Pb-Free)	7500 / Tape & Reel

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

SSA210

TYPICAL CHARACTERISTICS





SMA CASE 403AE ISSUE O DATE 31 AUG 2016 5.60 \oplus 0.13 (M) В С В Α B 4.80 2.65 2.95 1.65 1.75 ́Β` 2.50 1.20 4.30 4.75 ΈB A 4.00 LAND PATTERN RECOMMENDATION TOP VIEW 2.50 MAX 2.20 NOTES: 1.90 A. EXCEPT WHERE NOTED, CONFORMS TO JEDEC DO214 VARIATION AC. 0.30 ∕B` DOES NOT COMPLY JEDEC STANDARD 0.203 Β 0.05 VALUE. 0.050 С C. ALL DIMENSIONS ARE IN MILLIMETERS. 2.05 D. DIMENSIONS ARE EXCLUSIVE OF **⊕**|0.13 (M) С В Α 1.95 BURRS, MOLD FLASH AND TIE BAR PROTRUSIONS. SIDE VIEW Ε. DIMENSIONS AND TOLERANCE AS PER ASME Y14.5-2009. E. LAND PATTERN STD. DIOM5025X231M **8**° 0 R0.15 4X GAGE PLANE 0.45 0.41 0.15 1.52 **8** ° 0.75 **0** ° **DETAIL A** SCALE 20:1 Electronic versions are uncontrolled except when accessed directly from the Document Repository. DOCUMENT NUMBER: 98AON13440G Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red. PAGE 1 OF 1 **DESCRIPTION:** SMA

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