SS12 THRU SS110

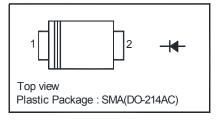
Surface Mount Schottky Barrier Rectifiers Reverse Voltage - 20 to 100 V Forward Current - 1 A

Features

- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-0
- · For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Built-in strain relief, ideal for automated placement
- Low power loss, high efficiency.
- High forward surge current capability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Mechanical Data

 Case: SMA (DO-214AC) molded plastic body
 Terminals: leads solderable per MIL-STD-750, Method 2026

· Polarity: color band denotes cathode end

Maximum Ratings and Electrical Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20° M

capacitive load, defate by 20 %									
Parameter	Symbols	SS12	SS13	SS14	SS15	SS16	SS18	SS110	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	٧
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30				А			
Maximum Instantaneous Forward Voltage at 1 A	V_{F}	0.55 0.75 0.85			.85	٧			
Maximum DC Reverse Current $T_J = 25^{\circ}C$ at Rated DC Blocking Voltage $T_J = 100^{\circ}C$	I _R	0.5 20				mA			
Typical Junction Capacitance 1) C _j		110							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	90						°C/W	
Operating Junction Temperature Range	Tj	- 55 to + 125						°C	
Storage Temperature Range	T _{stg}	- 55 to + 150						°C	

¹⁾ Measured at 1MHz and applied reverse voltage of 4 V D.C.



²⁾ P.C.B. mounted with 2" X 2" (5 X 5 cm) copper pad areas.

Electrical Characteristic Curves

Fig.1 Forward Current Derating Curve

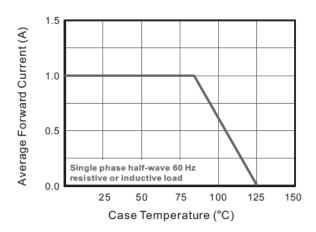


Fig.3 Typical Forward Characteristic

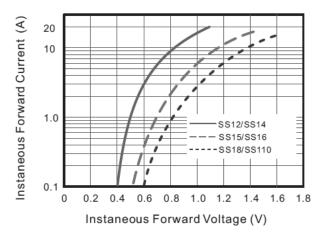


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

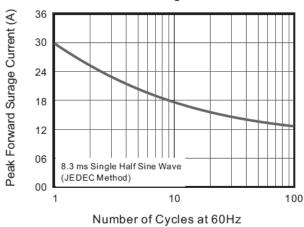


Fig.2 Typical Reverse Characteristics

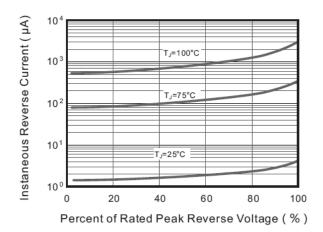


Fig.4 Typical Junction Capacitance

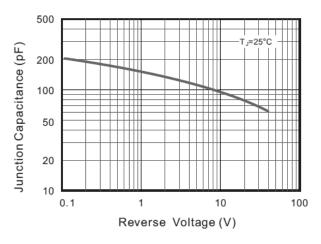
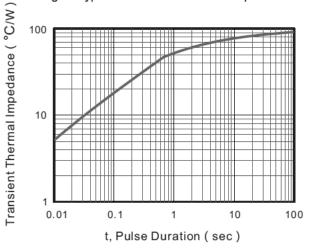


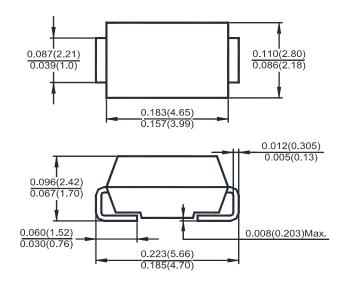
Fig.6- Typical Transient Thermal Impedance



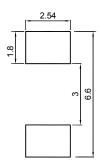


Package Outline Dimensions in inches (millimeters)

SMA(DO-214AC)



Recommended Soldering Footprint



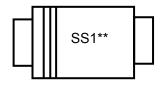
Marking information

" SS1** " = Part No.

Туре	Marking	Туре	Marking	Туре	Marking	Туре	Marking
SS12	SS12	SS13	SS13	SS14	SS14	SS15	SS15
SS16	SS16	SS18	SS18	SS110	SS110		

[&]quot; III " = Cathode line

Font type: Arial



Disclaimer: Our company reserve the right to make modifications, enhancements, improvements, corrections or other changes to improve product design, functions and reliability, anytime without notice. Semtech Electronics Limited makes no warranties, representations or warranties regarding the suitability of its products for any particular purpose, and does not accept any liability arising from the application or use of any product or circuit such as: Apply to medical, military, aircraft, space or life support equipment and expressly waive any and all liability, including but not limited to special, consequential or collateral damage.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Schottky Diodes & Rectifiers category:

Click to view products by Semtech manufacturer:

Other Similar products are found below:

MA4E2039 MMBD301M3T5G RB160M-50TR D83C BAS16E6433HTMA1 BAS 3010S-02LRH E6327 BAT 54-02LRH E6327

NRVBAF360T3G NSR05F40QNXT5G NTE555 JANS1N6640 SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MBRA140TRPBF

MBRB30H30CT-1G BAT 15-04R E6152 JANTX1N5712-1 DMJ3940-000 SB007-03C-TB-E NRVBB20100CTT4G NRVBM120LT1G

NTSB30U100CT-1G CRG04(T5L,TEMQ) ACDBA1100LR-HF ACDBA1200-HF ACDBA240-HF ACDBA3100-HF CDBQC0530L-HF

ACDBA260LR-HF ACDBA1100-HF 10BQ015-M3/5BT NRVBM120ET1G VSSB410S-M3/5BT 1N5819T-G PDS1040Q-13 B160BQ-13-F

SDM05U20CSP-7 BAS 70-07 E6433 B140S1F-7 HSM560Je3/TR13 DDB2265-000 ZHCS506QTA HSM190Je3/TR13 B330AF-13

ACDBUC0230-HF SDM1U100S1F-7 MBR10200CTF-G1 CDLL5712 DMF2822-000