

Pb, RoHS

А

V

А

V

°C

Excellent Schottky Barrier Rectifiers

5

300

100

0.97

150



DO-214AC(SMA)

Features

High current capability

High surge current capability

Low reverse current

Mechanical Data

 I_{F}

V_{RRM}

 I_{FSM}

 V_{F}

T_J max

Case : DO-214AC(SMA)

Primary Characteristics

 $\boldsymbol{\cdot}$ Case Material : Molded Plastic.

UL Flammability Classification Rating 94V-0

Terminals : Lead free Plating (Tin Finish)
Solderable per MIL-STD-202, Method 208

Polarity : Cathode Band

• Weight : 0.062 grams (approximate)

Ordering Information			
Part No.	Remark	Package	Packing
EBRP5L300A	RoHS Compliant		
EBRP5L300A-H	Halogen Free	SMA	5000 / Tape & Reel
EBRP5L300A-Q	AEC-Q101 qualified		

Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	EBRP5L300A	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	300	V
Maximum RMS voltage	V _{RMS}	210 300	V
Maximum DC blocking voltage	V _{DC}		V
Maximum average forward rectified current	۱ _F	5	А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100	А
Maximum Instantaneous Forward Voltage (NOTE 2) IF=2A @ 25°C IF=5A @ 25°C	V _F	0.77 Тур. 0.97 Мах.	v
Maximum DC Reverse Current at @ TA=25°C Rated DC Blocking Voltage (NOTE 2) @ TA=100°C	I _R	0.2 5	mA
Typical Junction Capacitance (NOTE1)	Cj	60	pF
Typical Thermal Resistance	R _{θJC}	40	°C/W
Operating Temperature Range	Τ _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C
Marking Code		P5L300A \ 5L300A	

NOTES :

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2.Pulse test : single pulse width \leq 1 ms.





Excellent Schottky Barrier Rectifiers

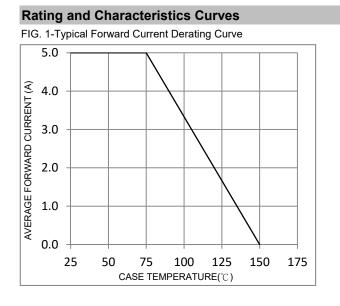


FIG. 3-Maximum Non-Repetitive Forward Surge Current

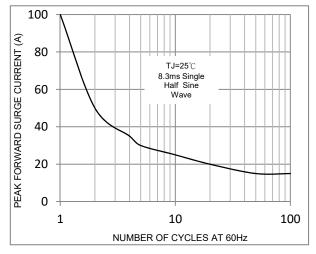


FIG. 5-Typical Junction Capacitance

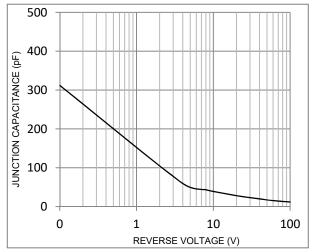


FIG. 2-Typical Forward Characteristics

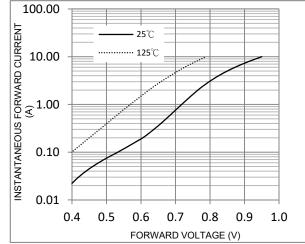
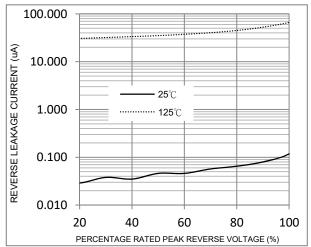


FIG. 4-Typical Reverse Characteristics

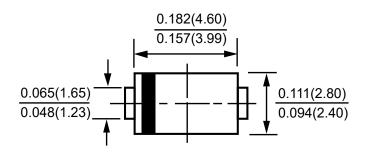


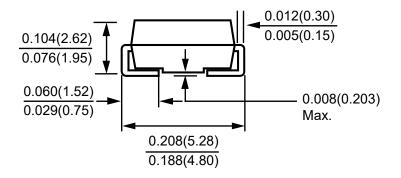


Pb, RoHS

Excellent Schottky Barrier Rectifiers

Package Outline Dimensions

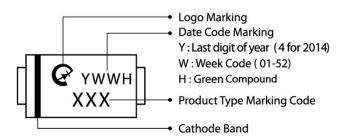




DO-214AC(SMA)

Dimensions in inches and (millimeters)

Marking Information

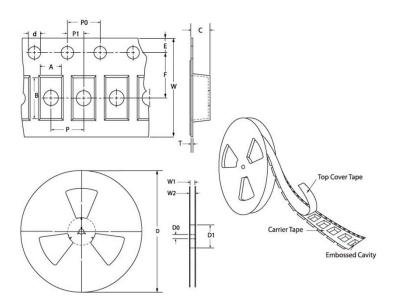


Tape & Reel Specification

Tape & Reel Specification				
Sumbol	SMA(mm)			
Symbol	DO-214AC			
Α	2.9 (max)			
В	5.9 (max)			
С	2.66 (max)			
d	1.50 ± 0.1			
D	330 ± 2.0			
D0	13.5 ± 1			
D1	50 (min.)			
E	1.75 ± 0.1			
F	5.5 ± 0.05			
Р	4.0 ± 0.1			
P0	4.0 ± 0.1			
P1	2.0 ± 0.05			
Т	0.6 (max)			
W	12.0 ± 0.3			
W2	18.4 (max)			
W1	14.4 (max)			
	Symbol A B C d D D0 D1 E F F P P0 P1 T T W W2			

Suggested Pad Layout

Outline Dimension	SMA (mm) DO-214AC	
А	6.50	← E
В	1.50	1 I I
С	1.70	Ĭ Ť Ť
D	2.50	← D → ← B → ← A →
E	4.00	1 1







Excellent Schottky Barrier Rectifiers

LEGAL DISCLAIMER

- The product is provided "AS IS" without any guarantees or warranty. In association with the product, Eris Technology Corporation, its affiliates, and their directors, officers, employees, agents, successors and assigns (collectively, the "Eris") makes no warranties of any kind, either express or implied, including but not limited to warranties of merchantability, fitness for a particular purpose, of title, or of non-infringement of third party rights.
- The information in this document and any product described herein are subject to change without notice and should not be construed as a commitment by Eris. Eris assumes no responsibility for any errors that may appear in this document.
- Eris does not assume any liability arising out of the application or use of this document or any product described herein, any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold Eris and all the companies whose products are represented on Eris website, harmless against all damages.
- No license, express or implied, by estoppels or otherwise, to any intellectual property is granted by this document or by any conduct of Eris. Product name and markings notes herein may be trademarks of their respective owners.
- Eris does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel.
- Should Customers purchase or use Eris products for any unintended or unauthorized application, Customers shall indemnify and hold Eris and its representatives harmless against all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized application.
- The official text is written in English and the English version of this document is the only version endorsed by Eris. Any discrepancies or differences created in the translations are not binding and have no legal effect on Eris for compliance or enforcement purposes.