





DO-214AC(SMA)

ע-טע	214A	C(2)	VIA
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Features

- · High current capability
- · High surge current capability
- · Low reverse current

Primary Characteristics			
I _F	5	Α	
V_{RRM}	300	V	
I _{FSM}	100	Α	
V _F	0.97	V	
T _J max	150	°C	

Mechanical Data

· Case: DO-214AC(SMA)

· 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	V
Maximum DC blocking voltage	V_{DC}	300	V
Maximum average forward rectified current	I _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 Typ. 0.97 Max.	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)	C _j	60	pF
Typical Thermal Resistance	$R_{\theta JC}$	40	°C/W
Operating Temperature Range	T _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.





Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

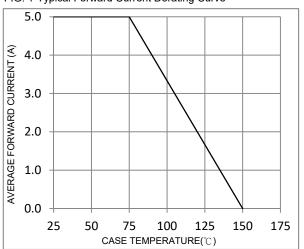


FIG. 3-Maximum Non-Repetitive Forward Surge Current

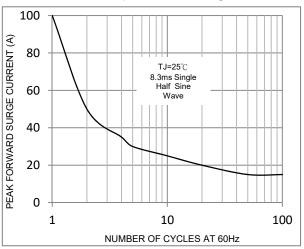


FIG. 5-Typical Junction Capacitance

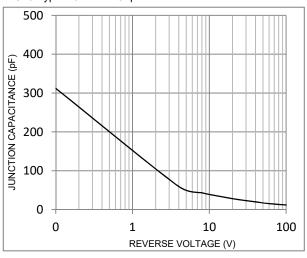


FIG. 2-Typical Forward Characteristics

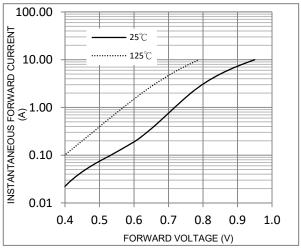
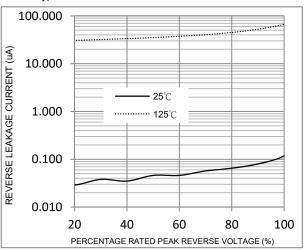


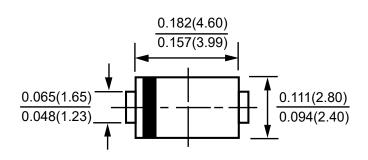
FIG. 4-Typical Reverse Characteristics

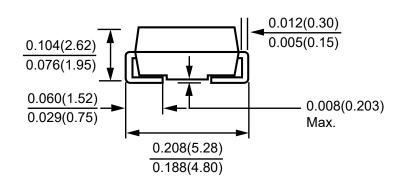






Package Outline Dimensions

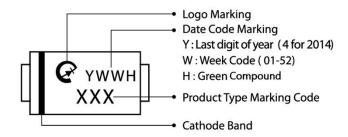




DO-214AC(SMA)

Dimensions in inches and (millimeters)

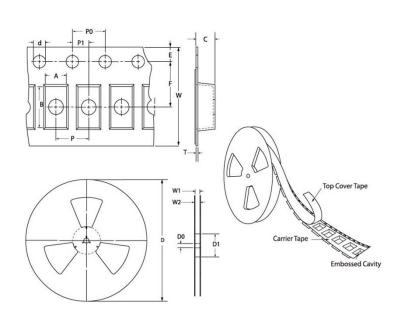
Marking Information



Suggested Pad Layout

Outline Dimension	SMA (mm) DO-214AC	
Α	6.50	 Ε
В	1.50	
С	1.70	Ĭ T T
D	2.50	D - B - A
E	4.00	

Tape & Reel Specification			
ltem	Symbol	SMA(mm)	
	Cymbol	DO-214AC	
Carrier width	А	2.9 (max)	
Carrier length	В	5.9 (max)	
Carrier depth	С	2.66 (max)	
Sprocket hole	d	1.50 ± 0.1	
Reel outside diameter	D	330 ± 2.0	
Feed hole diameter	D0	13.5 ± 1	
Reel inner diameter	D1	50 (min.)	
Sprocket hole position	E	1.75 ± 0.1	
Punch hole position	F	5.5 ± 0.05	
Sprocket hole pitch	Р	4.0 ± 0.1	
Sprocket hole pitch	P0	4.0 ± 0.1	
Embossment center	P1	2.0 ± 0.05	
Overall tape thickness	Т	0.6 (max)	
Tape width	W	12.0 ± 0.3	
Reel width	W2	18.4 (max)	
Reel width	W1	14.4 (max)	







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