





DO-214AC(SMA)

Features

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

Primary Characteristics

I _F	3	А
V _{RRM}	20~200	V
I _{FSM}	80	Α
V _F	0.50, 0.7, 0.85, 0.87, 0.90	V
T _J max	125 , 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)

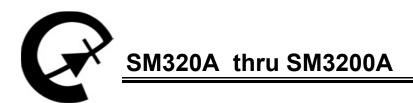
Ordering Information					
Part No.	Remark	Package	Packing		
SM3xxA	RoHS Compliant				
SM3xxA-H	Halogen Free	SMA	5000 / Tape & Reel		
SM3xxA-Q	AEC-Q101 qualified				

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

Parameter	Symbol	SM 320A	SM 330A	SM 340A	SM 350A	SM 360A	SM 380A	SM 3100A	SM 3150A	SM 3200A	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	۱ _F	3					Α				
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80					А				
Maximum Instantaneous Forward Voltage IF=3A @ 25°C	V _F		0.50		0.1	70	0.8	85	0.87	0.90	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I _R	0.5 10								mA	
Typical Junction Capacitance(NOTE1)	Cj	150			100		8	80	pF		
Typical Thermal Resistance	$R_{ extsf{ heta}JC}$	25					°C/W				
Operating Temperature Range	Τ _J	-55 to +125 -55 to +150			+150		°C				
Storage Temperature Range	T _{STG}	-55 to +150				°C					
Marking Code		SM 320A	SM 330A	SM 340A	SM 350A	SM 360A	SM 380A	SM 3100A	SM 3150A	SM 3200A	

NOTES :

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



RoHS

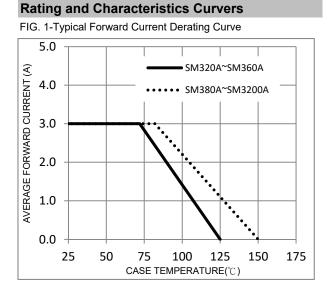


FIG. 3-Maximum Non-Repetitive Forward Surge Current

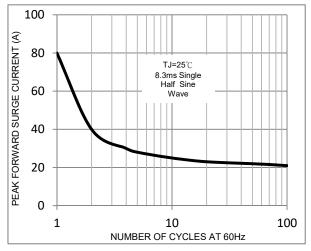
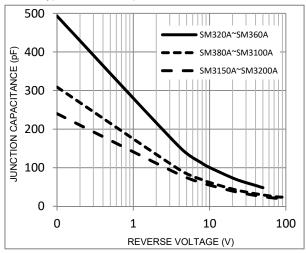


FIG. 5-Typical Junction Capacitance



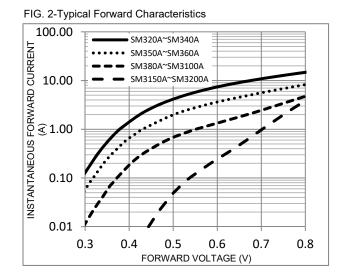
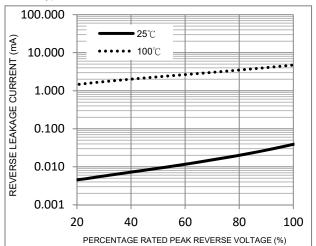
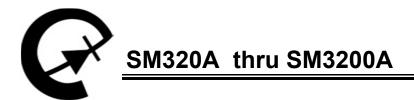


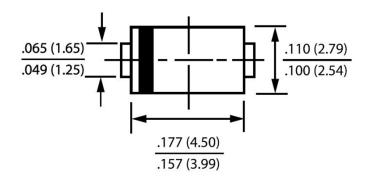
FIG. 4-Typical Reverse Characteristics

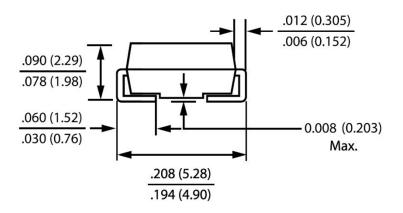






Package Outline Dimensions

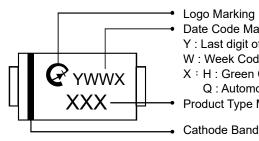




DO-214AC(SMA)

Dimensions in inches and (millimeters)

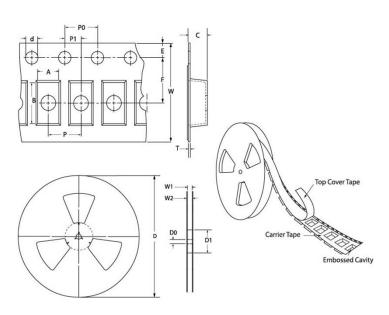
Marking Information

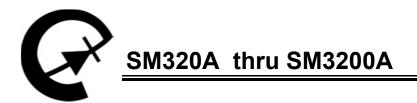


Logo Marking Date Code Marking Y : Last digit of year (4 for 2014) W : Week Code (01-52) X : H : Green Compound Q : Automotive Product Type Marking Code

Suggested Pad Layout						
Outline	SMA(mm)					
Dimension	DO-214AC					
A	6.50	← Ε −→				
В	1.50					
С	1.70					
D	2.50	✓ D → ← B →				
E	4.00	A				

Tape & Reel Specification					
Item	Symbol	SMA(mm)			
nem	Symbol	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	Po	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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