



SS210T



Schottky Barrier Rectifiers



DO-214AC(SMA)

Primary Characteristics

I_F	2	A
V_{RRM}	100	V
I_{FSM}	80	A
V_F	0.8	V
$T_J \text{ max}$	150	°C

Features

- Schottky Barrier Chip
- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 80A Peak

Mechanical Data

- Case : DO-214AC(SMA)
- Case Material : Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals : Plated leads solderable per MIL-STD-750,Method 2026
- Polarity : Color band denotes cathode end
- Mounting Position: Any

Ordering Information

Part No.	Remark	Package	Packing
SS210T	RoHS Compliant	SMA	5000 / Tape & Reel
SS210T-H	Halogen Free		
SS210T-Q	AEC-Q101 qualified		

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

Parameter	Symbol	SS210T	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current	I_F	2	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	80	A
Maximum Instantaneous Forward Voltage $I_F=2A @ 25^\circ C$	V_F	0.8	V
Maximum DC Reverse Current @ $T_J=25^\circ C$ at Rated DC Blocking Voltage @ $T_J=100^\circ C$	I_R	0.05 5	mA
Typical Junction Capacitance (NOTE1)	C_J	70	pF
Typical Thermal Resistance	$R_{\theta JC}$	35	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		SS210T	

NOTES :

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



Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

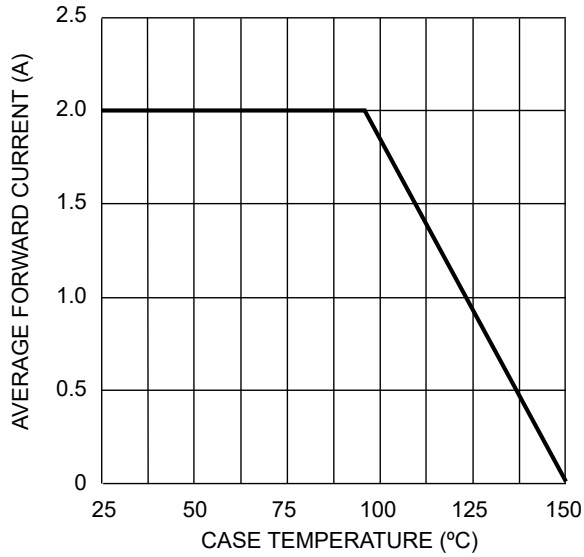


FIG. 2-Typical Forward Characteristics

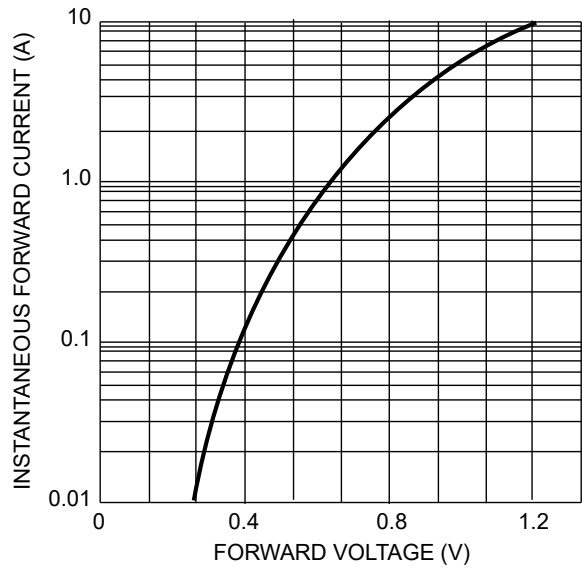


FIG. 3-Maximum Non-Repetitive Forward Surge Current

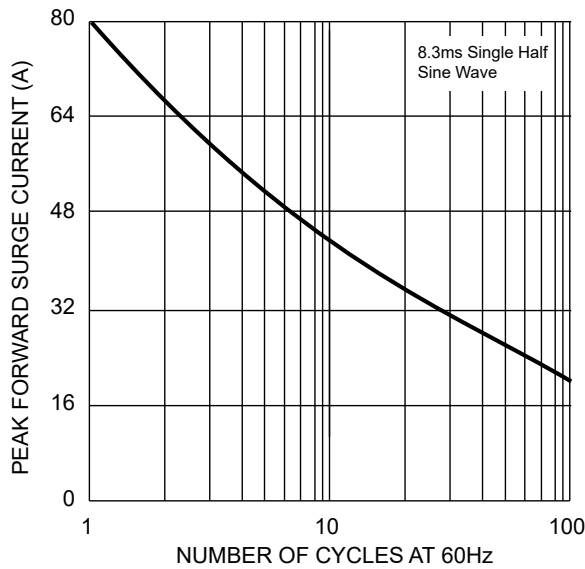
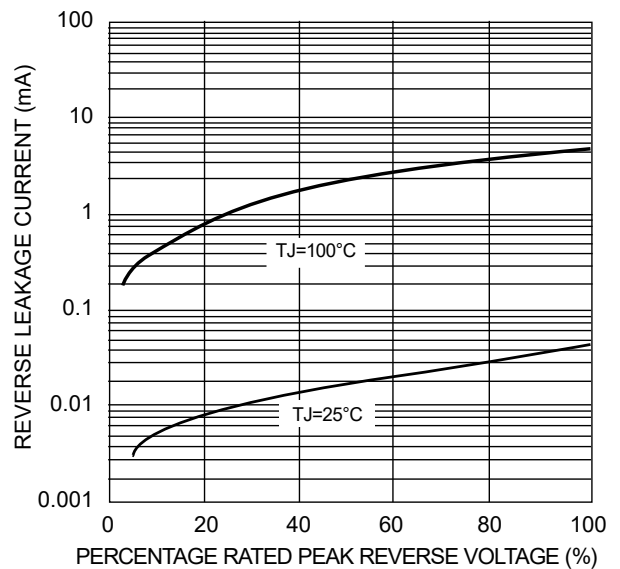


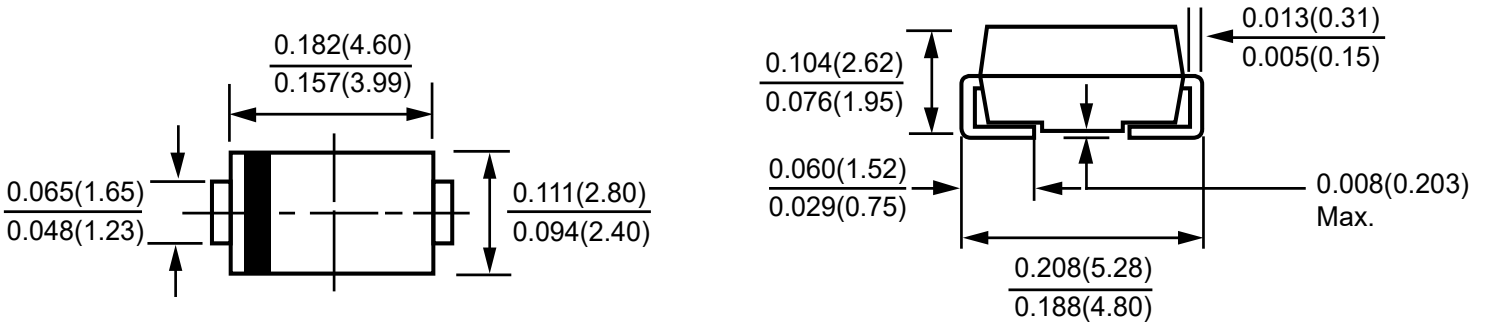
FIG. 4-Typical Reverse Characteristics





Schottky Barrier Rectifiers

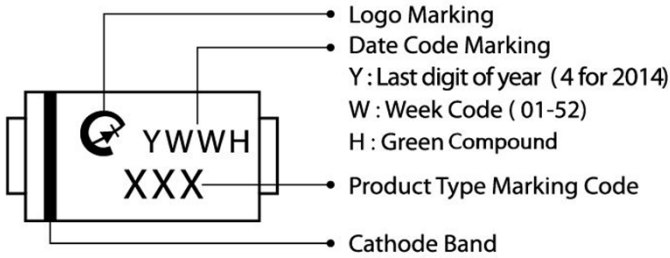
Package Outline Dimensions



DO-214AC(SMA)

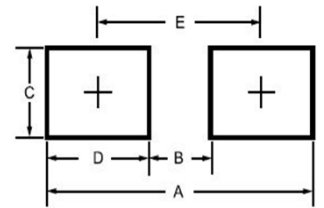
Dimensions in inches and (millimeters)

Marking Information



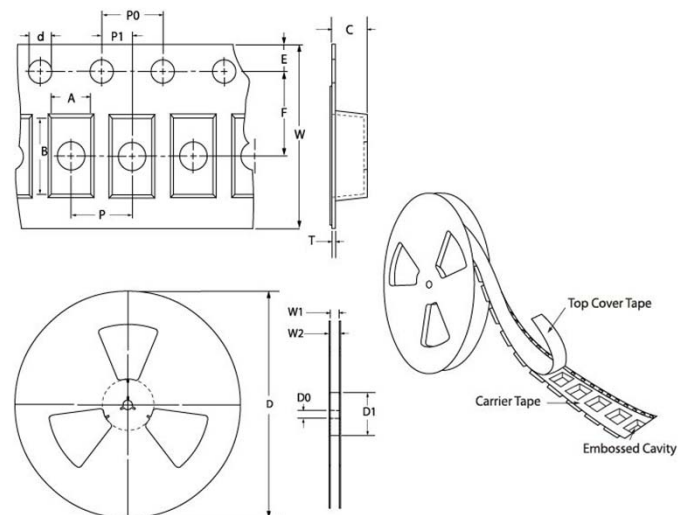
Suggested Pad Layout

Outline Dimension	SMA (DO-214AC)
A	6.50
B	1.50
C	1.70
D	2.50
E	4.00



Tape & Reel Specification

Item	Symbol	SMA (mm) DO-214AC
Carrier width	A	2.9 (max)
Carrier length	B	5.9 (max)
Carrier depth	C	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	P	4.0 ± 0.1
Sprocket hole pitch	P0	4.0 ± 0.1
Embossment center	P1	2.0 ± 0.05
Overall tape thickness	T	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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