



SK110L



# Low VF Surface Mount Schottky Barrier Rectifiers



DO-214AC(SMA)

### Primary Characteristics

$I_F$	1	A
$V_{RRM}$	100	V
$I_{FSM}$	35	A
$V_F$	0.75	V
$T_J \text{ max}$	150	°C

### Features

- Low Power Loss, High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 35A 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 : Cathode Band
- Weight : 0.062 grams (approximate)

### Ordering Information

Part No.	Remark	Package	Packing
SK110L	General	SMA	5000 / Tape & Reel
SK110L-H	Halogen Free		
SK110L-Q	AEC-Q101 qualified		

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

Parameter	Symbol	SK110L	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	$I_F$	1	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	$I_{FSM}$	35	A
Maximum Instantaneous Forward Voltage $I_F=1A @ 25^\circ C$	$V_F$	0.75	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)	$C_j$	60	pF
Typical Thermal Resistance	$R_{\theta JA}$	75	°C/W
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C
Marking Code		SK110L	

### NOTES :

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



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## Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

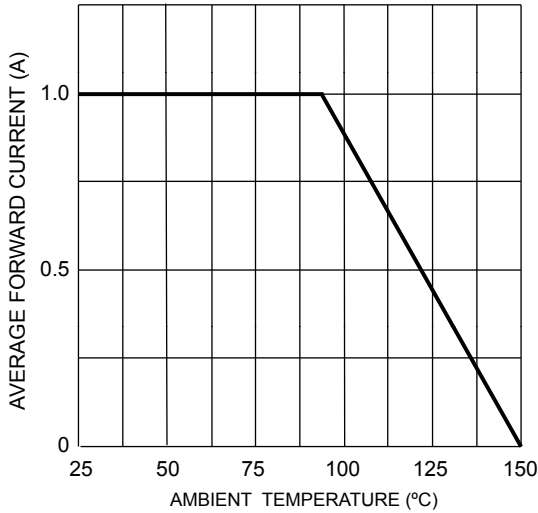


FIG. 2-Typical Forward Characteristics

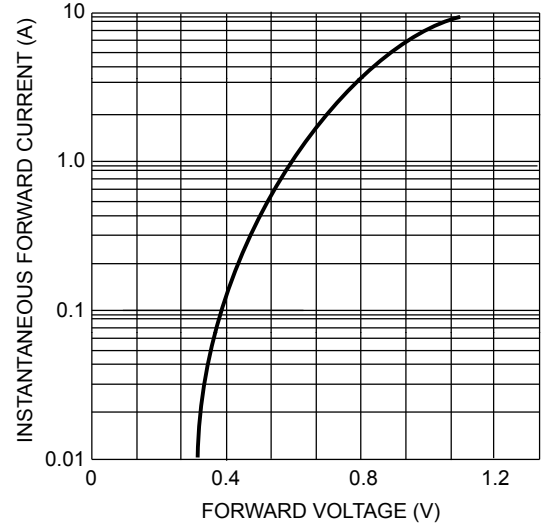


FIG. 3-Maximum Non-Repetitive Forward Surge Current

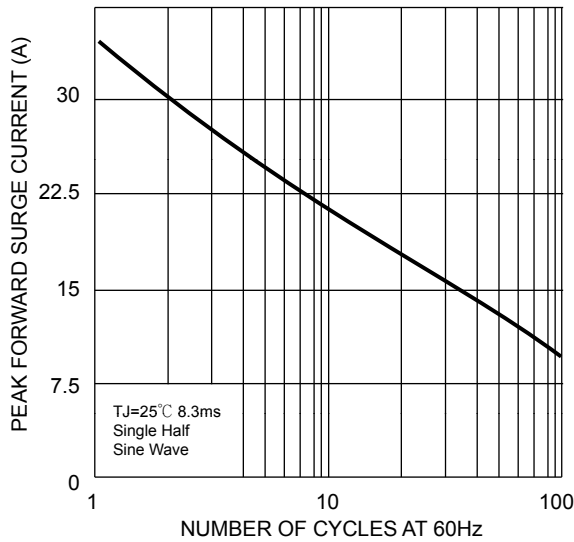
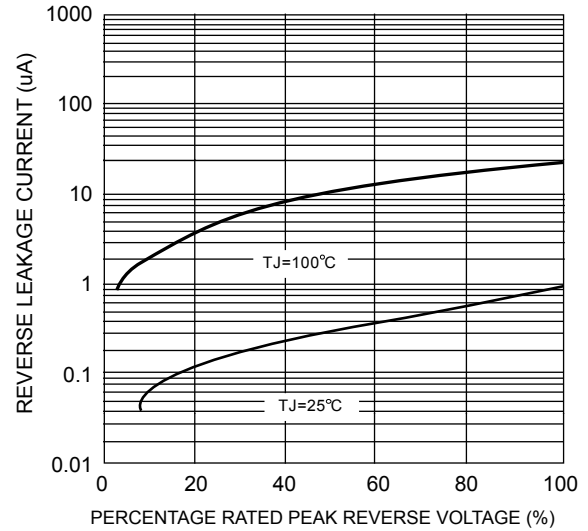


FIG. 4-Typical Reverse Characteristics



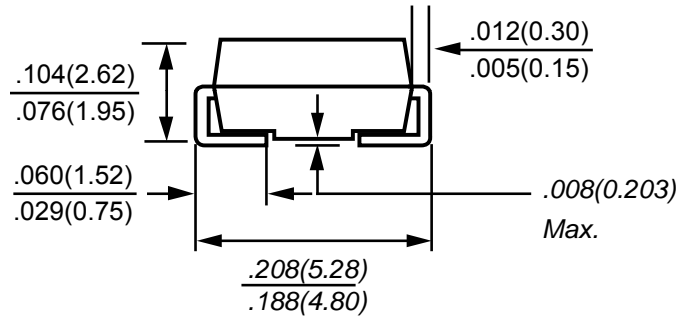
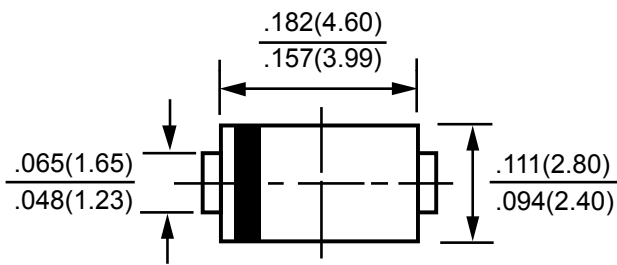


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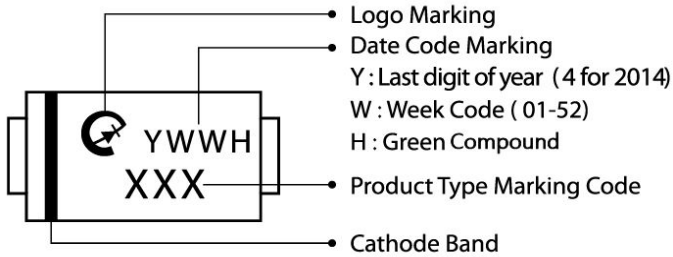
## Package Outline Dimensions



## DO-214AC(SMA)

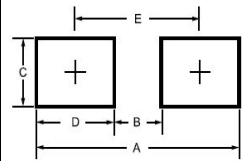
Dimensions in inches and (millimeters)

## Marking Information



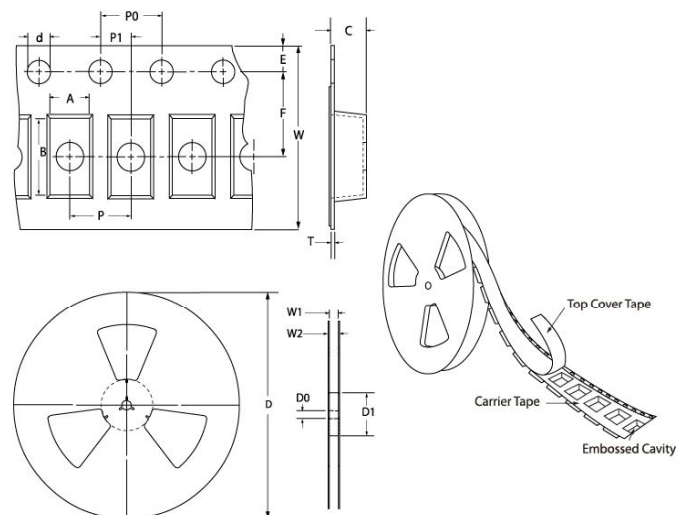
## Suggested Pad Layout

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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