

# SS22~SS210

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE** 20 to 100 Volt **CURRENT** 2 Ampere

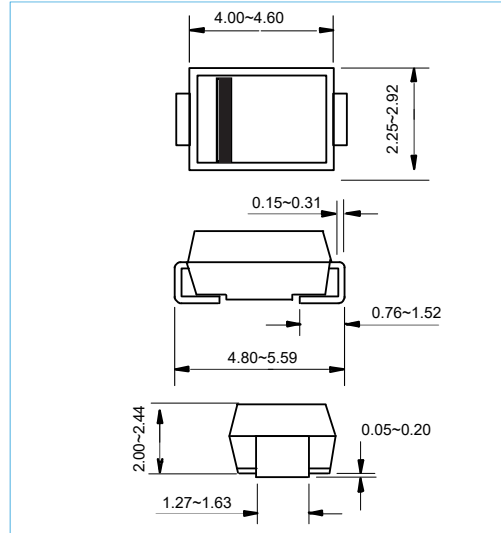
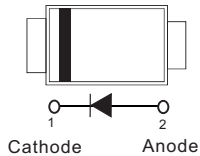
**SMA / DO-214AC** Unit:mm

### FEATURES

- Low power loss, High efficiency
- High surge capacity
- High current capacity, low  $V_F$
- Lead free in compliance with EU RoHS 2.0

### MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	SS22	SS23	SS24	SS25	SS26	SS28	SS210	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	V
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	V
Maximum Average Forward Current	$I_{F(AV)}$	2							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	50							A
Maximum Forward Voltage at 2 A	$V_F$	0.55		0.70		0.85		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.5							mA
Thermal Resistance	$R_{\theta JA}$ $R_{\theta JL}$	75					15		°C / W
Typical Junction Capacitance	$C_J$	50					pF		
Operating Junction Temperature Range	$T_J$	-55 to +125							°C
Storage Temperature Range	$T_{STG}$	-55 to +150							°C

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## RATING AND CHARACTERISTIC CURVES

FIG.1: FORWARD CURRENT DERATING CURVE

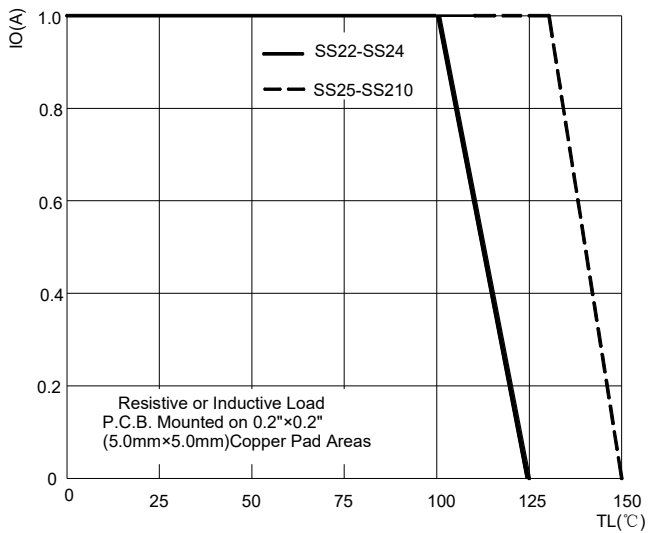


FIG2: Surge Forward Current Capadility

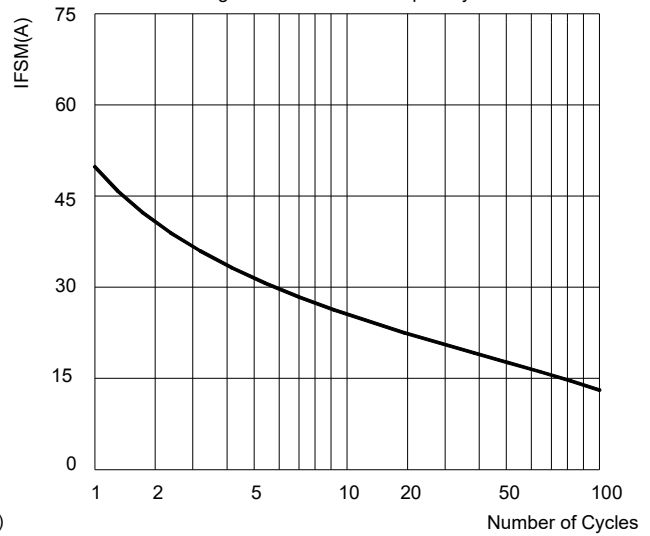


FIG.3: TYPICAL FORWARD CHARACTERISTICS

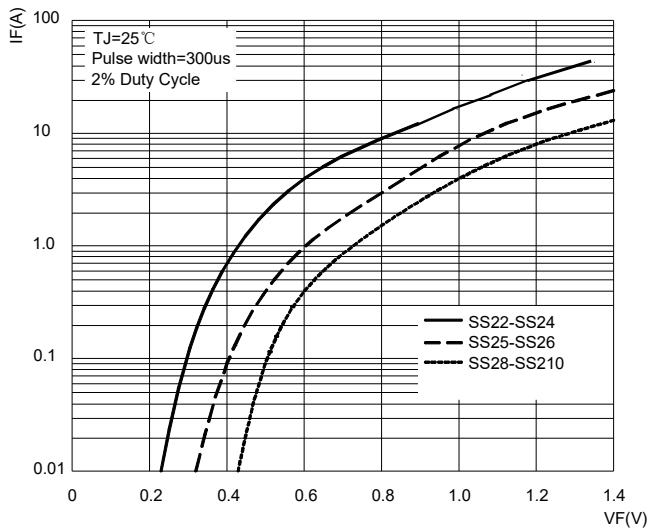
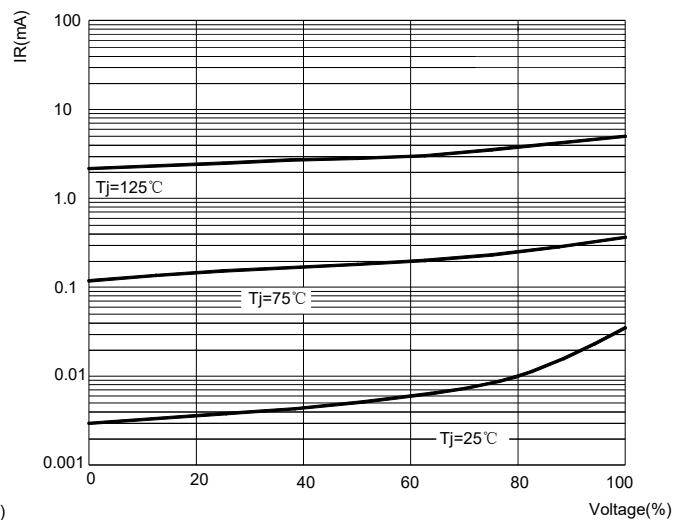


FIG.4: TYPICAL REVERSE CHARACTERISTICS

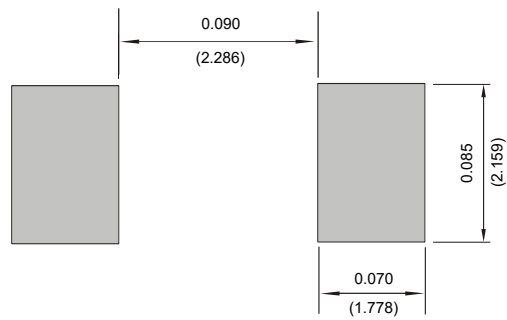


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## MOUNTING PAD LAYOUT

### SMA / DO-214AC

Unit:Inch(mm)



## ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
SS22~SS210	SMA	13 Inch	5000