



# SS22U THRU SS220U

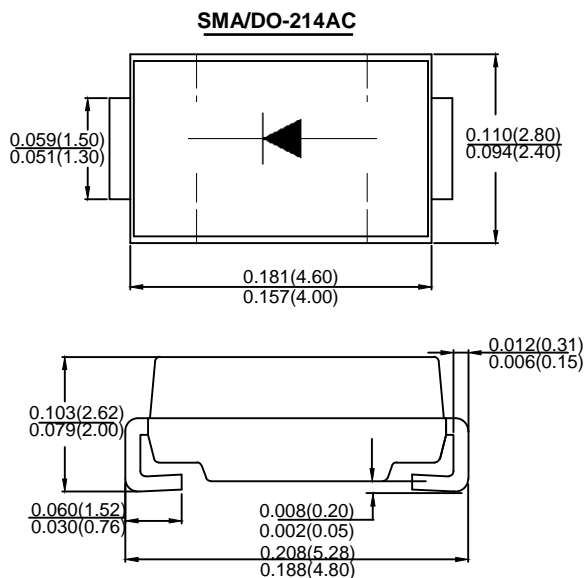
## 2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### Features

- Schottky Brier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 60A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified  
 Single phase, half wave, 60Hz, resistive or inductive load  
 For capacitive load derate current by 20%

Type Number	SYMBOL	SS 22U	SS 23U	SS 24U	SS 245U	SS 25U	SS 26U	SS 28U	SS 210U	SS 215U	SS 220U	Unit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	30	40	45	50	60	80	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	14	21	28	31	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	45	50	60	80	100	150	200	V	
Average Rectified Output Current @ $T_L = 100^\circ C$	$I_{F(AV)}$	2.0										A	
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	60										A	
Rating for fusing ( $t < 8.3ms$ )	$I^2 t$	14.94										A <sup>2</sup> s	
Forward Voltage @ $I_F = 2.0A$	$V_{FM}$	0.50			0.67			0.82	0.90			V	
Peak Reverse Current @ $T_A = 25^\circ C$	$I_R$	0.1						0.05					mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ C$		10						5					
Typical Junction Capacitance (Note 1)	$C_J$	100						50					pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	75										°C/W	
Operating Temperature Range	$T_J$	-55 to +150										°C	
Storage Temperature Range	$T_{STG}$	-55 to +150										°C	

- Note:
1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
  2. Device mounted on FR-4 substrate, 1"\*1", 2oz, single-sided, PC boards with 0.1"\*0.15" copper pad.



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Fig. 1 Forward Current Derating Curve

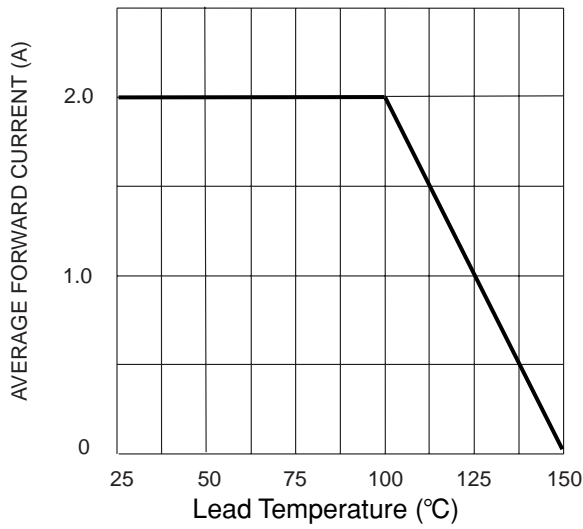


Fig. 2 Typ. Forward Characteristics

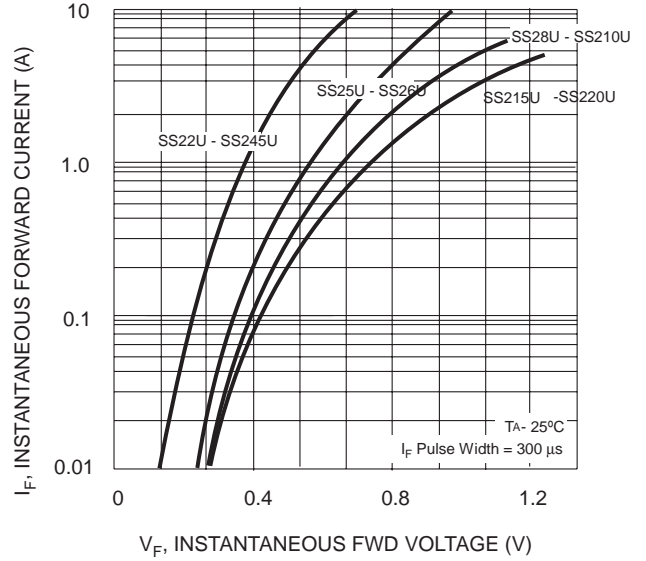


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

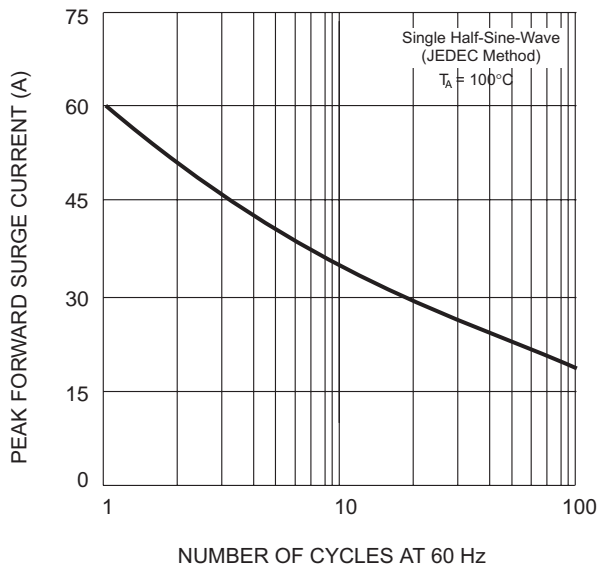
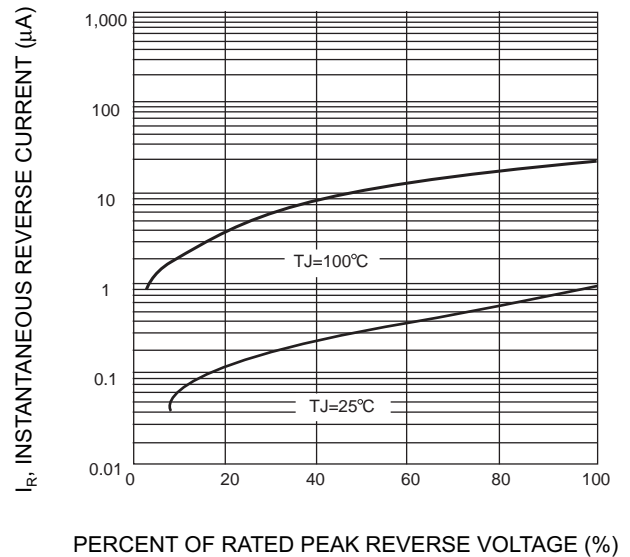
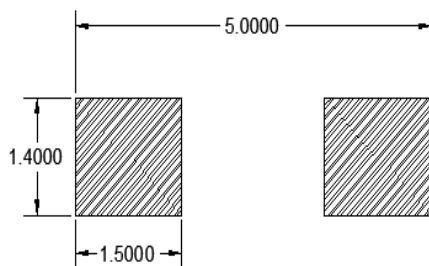


Fig. 4 Typical Reverse Characteristics (per element)



## SMA PAD LAYOUT





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