



# SF1J

## SURFACE MOUNT SUPERFAST RECTIFIER

**VOLTAGE** 600 Volt **CURRENT** 1 Ampere

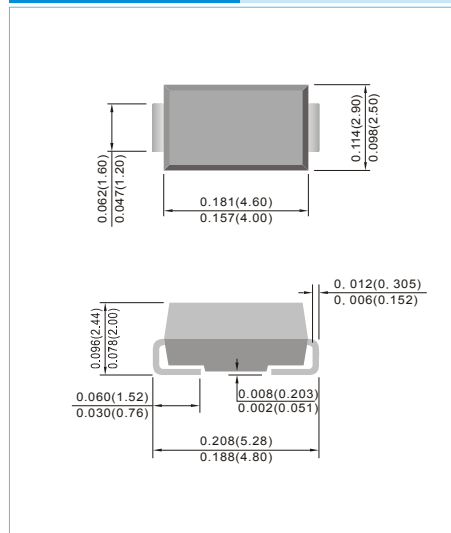
**SMA / DO-214AC** Unit : inch(mm)

### FEATURES

- For surface mounted applications in order to optimize board space
- Easy pick and place
- Superfast recovery times for high efficiency.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated junction
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0023 ounce, 0.0679 gram



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

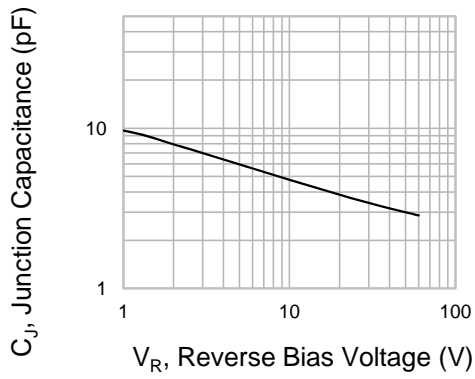
PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	600	V
Maximum RMS Voltage	$V_{RMS}$	420	V
Maximum DC Blocking Voltage	$V_{DC}$	600	V
Maximum Average Forward Current	$I_{F(AV)}$	1	A
Maximum Forward Voltage at 1A	$V_F$	1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	1	$\mu A$
Maximum Reverse Recovery Time (Note 1)	$t_{rr}$	35	ns
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +150	°C

#### NOTES :

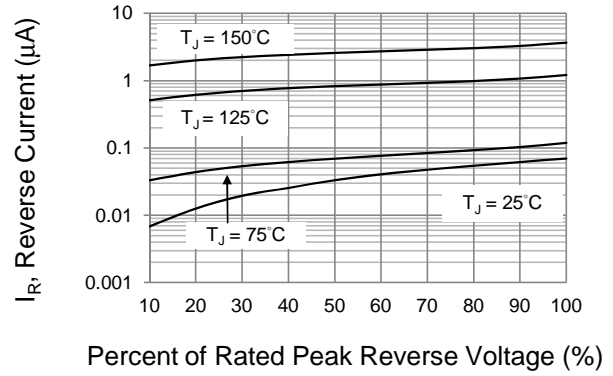
1.Reverse Recovery Tset Conditions :  $I_F=0.5A, I_R=1A, I_{rr}=0.25A$



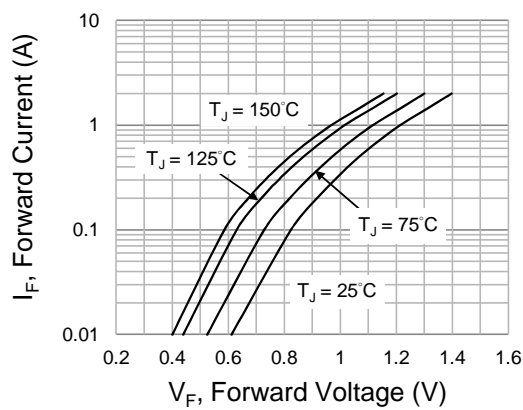
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**Fig.1 Typical Junction Capacitance**



**Fig.2 Typical Reverse Characteristics**

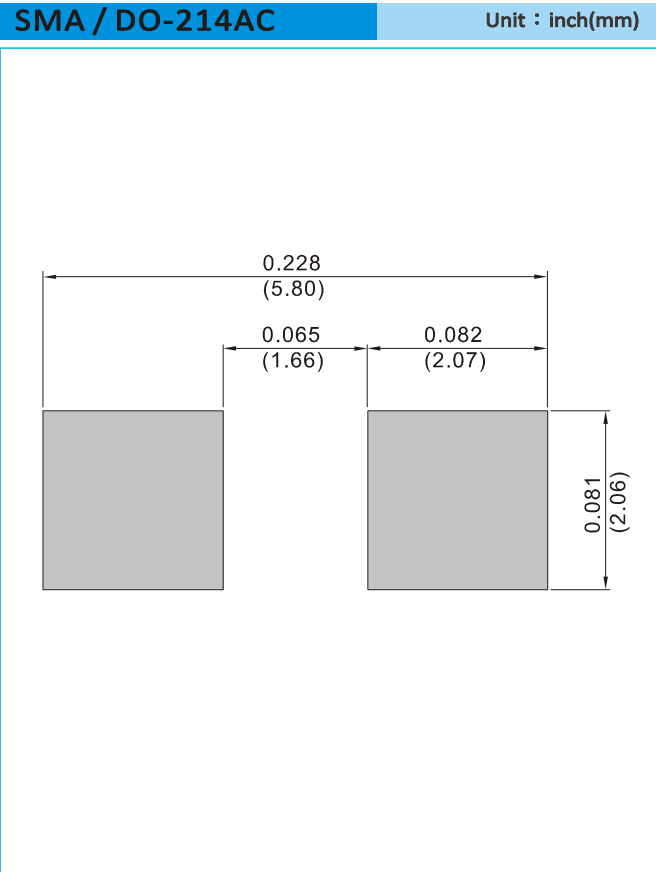


**Fig.3 Typical Forward Characteristics**



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R - 7.5K per 13" plastic Reel  
T/R - 1.8K per 7" plastic Reel



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