

# FS2AF~FS2MF

## FAST RECOVERY PLASTIC RECTIFIER

**VOLTAGE** 50 to 1000 Volt **CURRENT** 2 Ampere

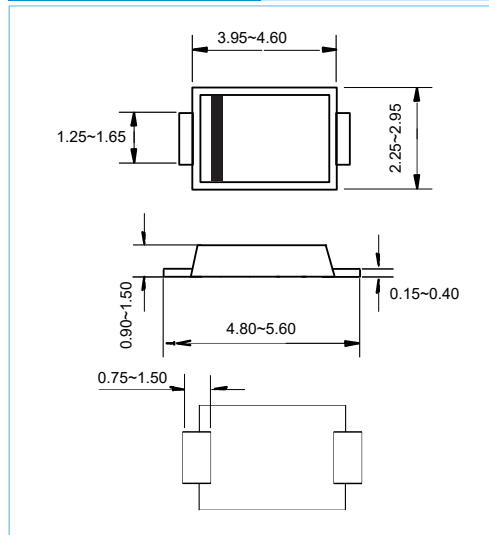
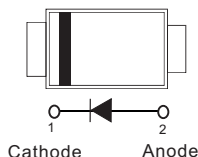
**DO-221AC/SMAF** Unit:mm

### FEATURES

- Low Forward Voltage Drop
- High Current Capability
- Moisture Sensitivity Level 1
- 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	FS2AF	FS2BF	FS2DF	FS2GF	FS2JF	FS2KF	FS2MF	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (see FIG.1)	$I_{F(AV)}$	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	$V_F$					1.3			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$					5			uA
Thermal Resistance	$R_{\theta JL}$					13			°C / W
Typical Junction Capacitance (Note1)	$C_J$					50			pF
Operating Junction Temperature Range	$T_J$					-55 to +150			°C
Storage Temperature Range	$T_{STG}$					-55 to +150			°C

#### NOTES:

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

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## RATING AND CHARACTERISTIC CURVES

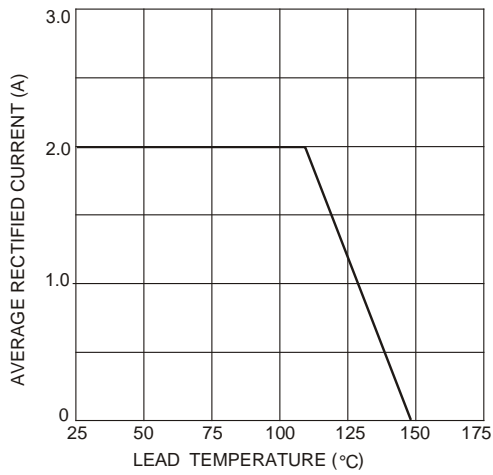


Fig. 1 Forward Current Derating Curve

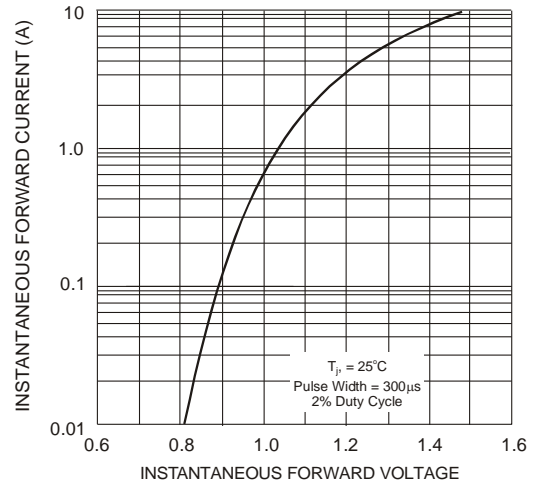


Fig. 2 Typical Forward Characteristics

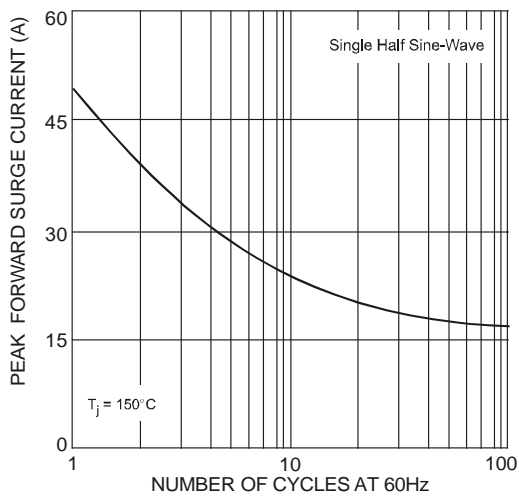


Fig. 3 Forward Surge Current Derating Curve

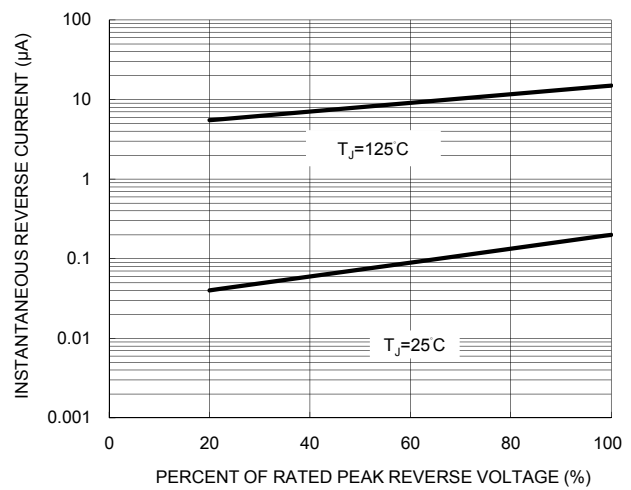


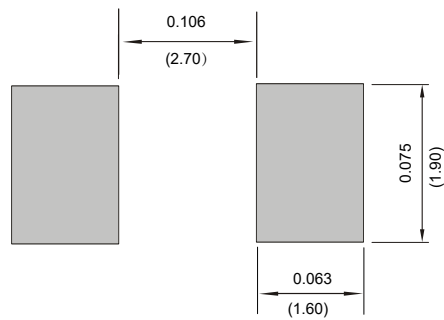
Fig. 4 Typical Reverse Characteristics

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## MOUNTING PAD LAYOUT

### DO-221AC/SMAF

Unit:Inch(mm)



## ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
FS2AF~FS2MF	DO-221AC	13 Inch	10000