RS2AF-RS2MF
Fast Recovery Rectifier Diodes

FEATURES

- Average Forward Current: $I_{F(AV)}$=2A
- Polarity: Color band denotes cathode

SMAF

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
RS2AF-RS2MF	SMAF	RS2*F	3000

*:From A-M

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Item	Symbol	Unit	Test Conditions	RS2						
				AF	BF	DF	GF	JF	KF	MF
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V		35	70	140	280	420	560	700
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, Ta= 90℃	2.0						
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	60						
Operation Junction and Storage Temperature Range	T_J, T_{STG}	℃		-55 ~ +150						

ELECTRICAL CHARACTERISTICS (T_a=25℃unless otherwise specified)

Item	Symbol	Unit	Test Condition		RS2						
					AF	BF	DF	GF	JF	KF	MF
Peak Forward Voltage	V_F	V	I_F=2.0A		1.3						
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A,I_{rr}=0.25A		150				250	500	
Peak Reverse Current	I_{RRM1}	μA	V_{RM}=V_{RRM}	T_a=25℃	5						
	I_{RRM2}			T_a=125℃	50						
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		55						
	$R_{\theta J-L}$		Between junction and terminal		18						

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

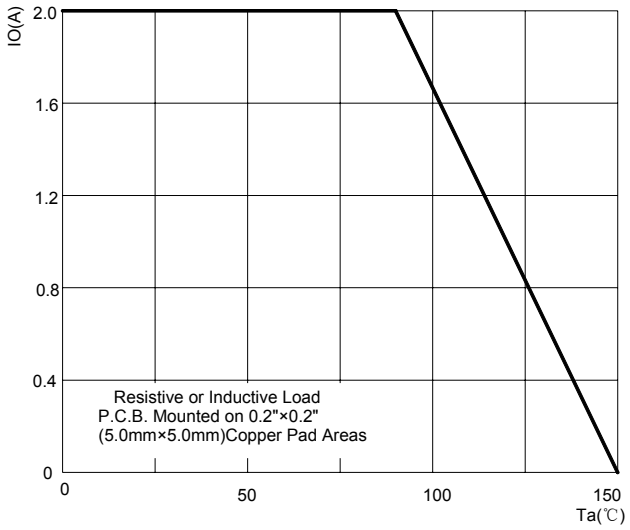


FIG2:Surge Forward Current Capadility

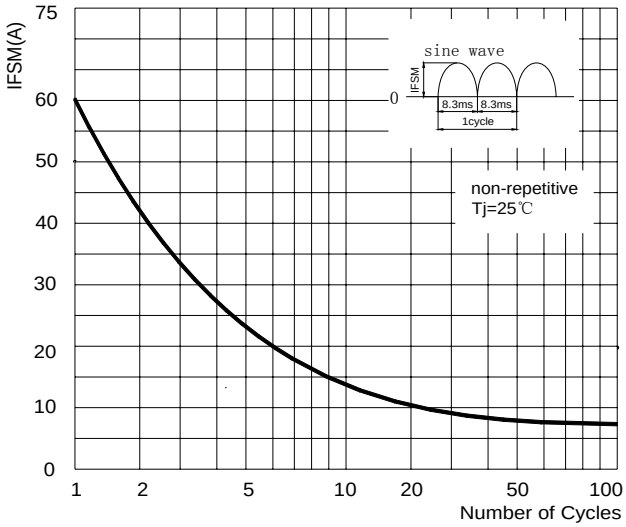


FIG.3: TYPICAL FORWARD CHARACTERISTICS

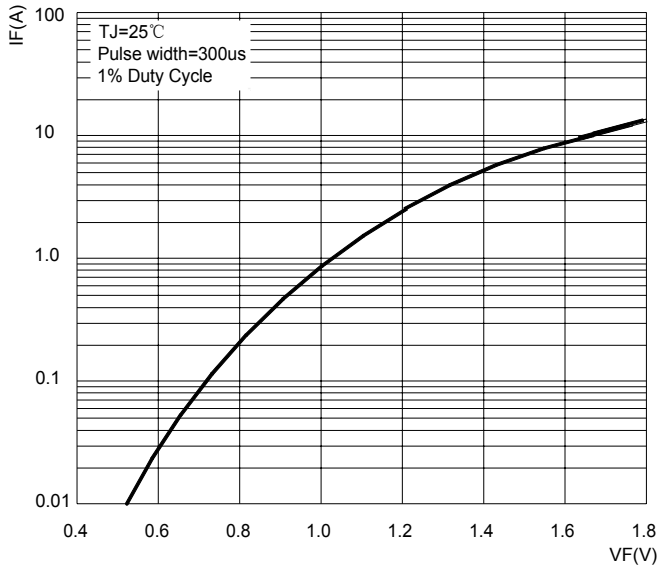


FIG.4 ：TYPICAL REVERSE CHARACTERISTICS

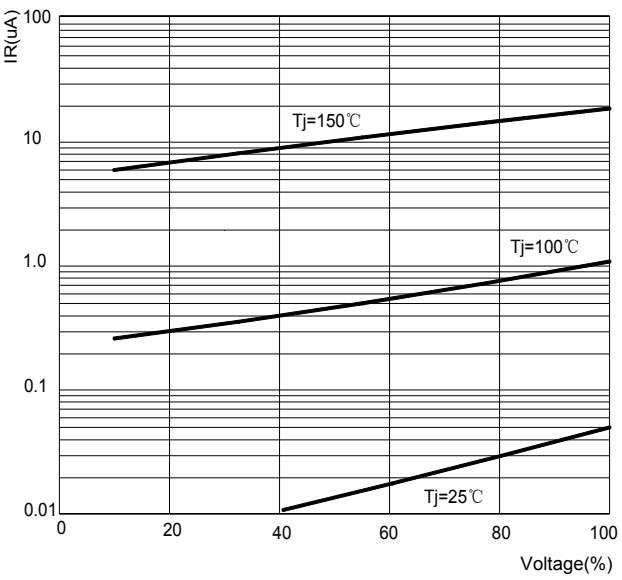
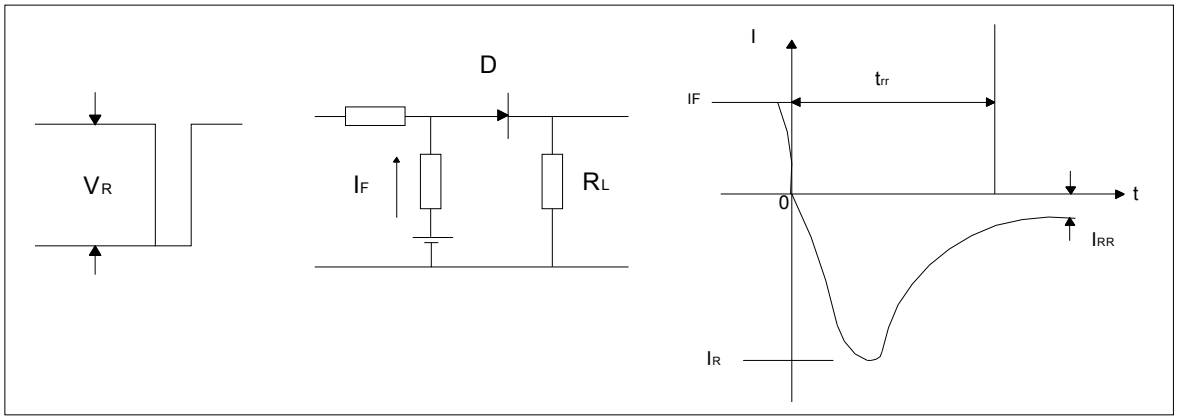
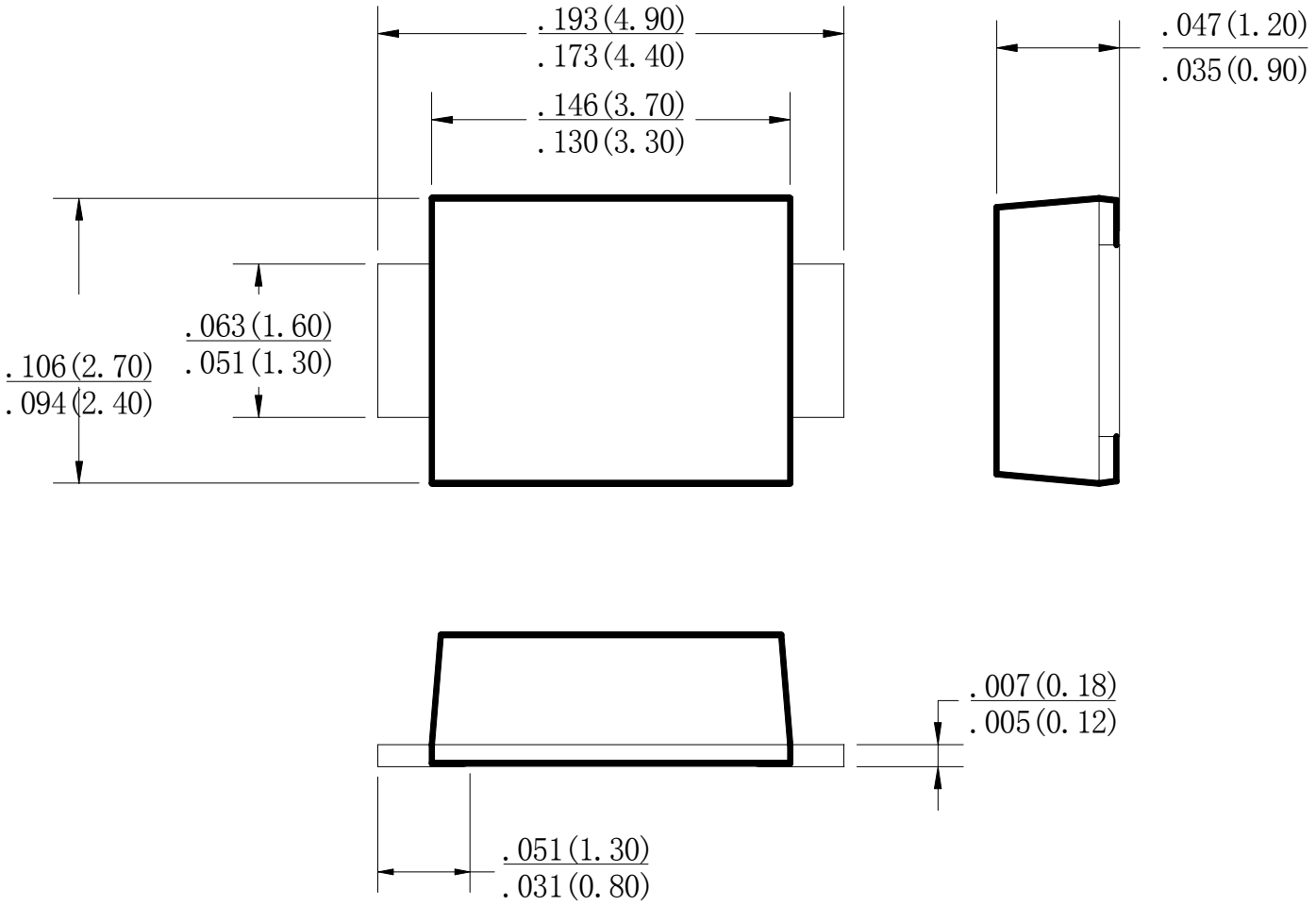


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



SMAF Package Outline Dimensions



Dimensions in inches and (millimeters)

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