

WEE Technology Company Limited FAST RECOVERY RECTFIER

RS1A THRU RS1M

VOLTAGE RANGE CURRENT 50 to 1000 Volts 1.0 Ampere

FEATURES

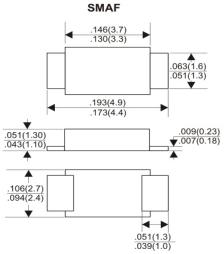
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- · Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

· Case: SMAF

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 27mg / 0.00095oz



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and 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	Symbols	RS1AF	RS1BF	RS1DF	RS1GF	RS1JF	RS1KF	RS1MF	Units
Maximum Repetitive 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 Rectified Current at T_c = 125 °C	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30							А
Maximum Forward Voltage at 1 A	V _F	1.3							V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 50							μA
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	15							pF
Maximum Reverse Recovery Time (1)	t _{rr}	150 250 500				00	ns		
Typical Thermal Resistance (2)	$R_{\theta JA}$	80							°C/W
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ +150							°C

⁽¹⁾ Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$.

⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Web: www.weetcl.com Blog: www.weediode.com, www.smddip.com



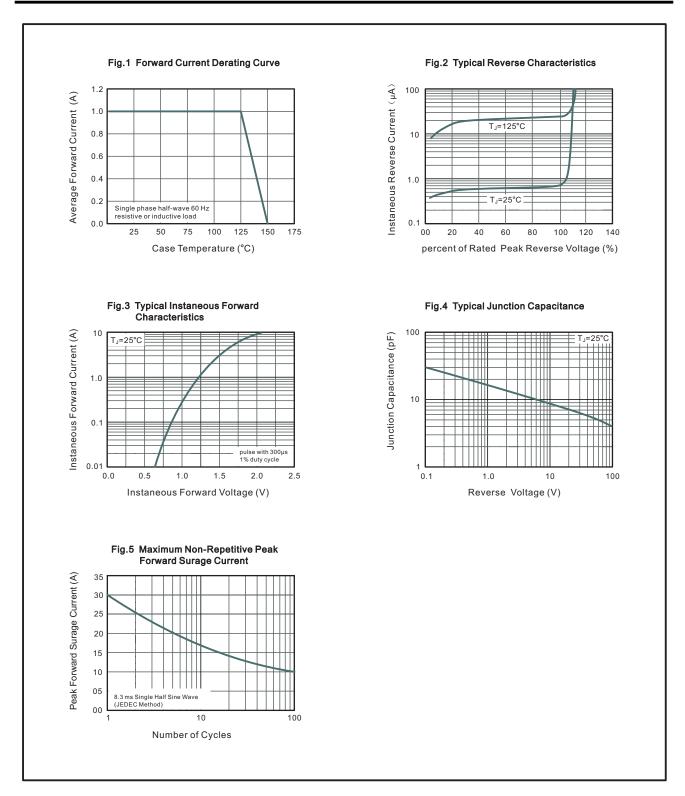
WEE Technology Company Limited **FAST RECOVERY RECTFIER**

RS1A THRU RS1M

VOLTAGE RANGE

50 to 1000 Volts





Note: Specifications are subject to change without notice. For more detail and update, please visit our website.

