

Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A

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

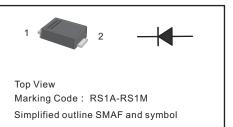
· Case: SMAF

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

· Approx. Weight: 27mg/0.00095oz

PINNING

PIN	DESCRIPTION		
1	Cathode		
2	Anode		



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 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	5 50						μА	
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)	$R_{ heta_{JA}} \ R_{ heta_{JL}}$	80 30						°C/W	
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150						°C	

^(1) Measured with $I_{\scriptscriptstyle F}$ = 0.5 A, $I_{\scriptscriptstyle R}$ = 1 A, $I_{\scriptscriptstyle rr}$ = 0.25 A.

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



Fig.1 Forward Current Derating Curve

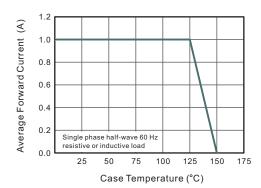


Fig.2 Typical Reverse Characteristics

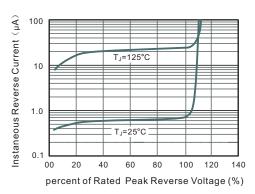


Fig.3 Typical Instaneous Forward Characteristics

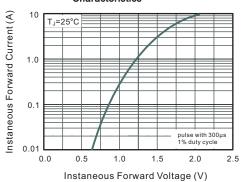


Fig.4 Typical Junction Capacitance

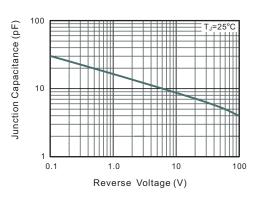
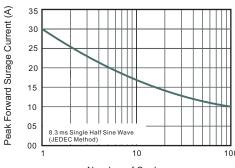


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



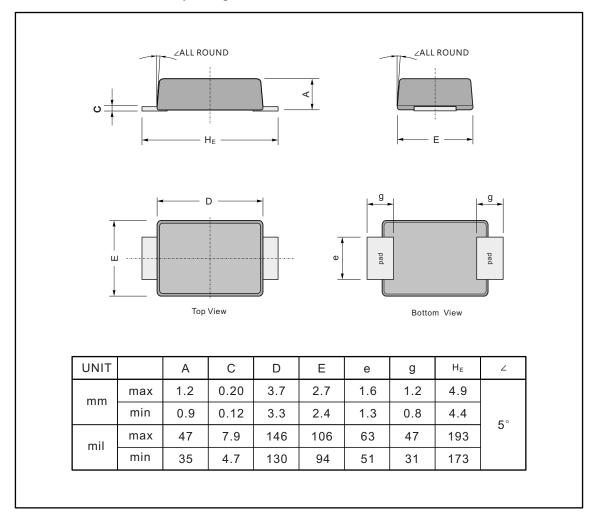
Number of Cycles



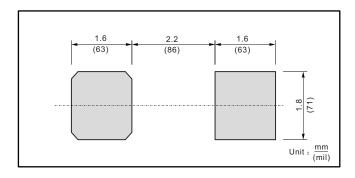
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size



Marking

Type number	Marking code				
RS1AF	RS1A				
RS1BF	RS1B				
RS1DF	RS1D				
RS1GF	RS1G				
RS1JF	RS1J				
RS1KF	RS1K				
RS1MF	RS1M				

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by SLKORMICRO manufacturer:

Other Similar products are found below:

70HFR40 FR105 R0 RL252-TP 1N5397 JANTX1N5634A 1N4002G 1N4005-TR JANS1N6640US 481235F RRE02VS6SGTR 067907F MS306 US2JFL-TP A1N5404G-G CRS12(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF DZ-1380 NTE6356 NTE6359 JAN1N5555 85HFR60 40HFR60 70HF120 85HFR80 D126A45C SCF7500 SCHJ22.5K SM100 SCPA2 SDHD5K ACGRA4001-HF D1821SH45T PR D1251S45T NTE6358 NTE5850 NTE5819 NTE5837 NTE5892 NTE5900 NTE5911 NTE5915 NTE5921 NTE6104 NTE6105 NTE6154 NTE6158