







TH97/2478 TH09/2479

RS1A - RS1M

PRV: 50 - 1000 Volts

lo: 1.0 Ampere

FEATURES:

- * Glass passivated chip
- * Low profile package
- * High forward surge capability
- * High reliability
- * Low reverse current
- * Fast switching for high efficiency
- * Pb / RoHS Free

MECHANICAL DATA:

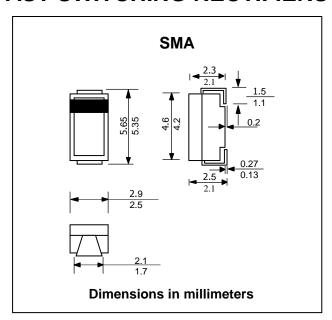
* Case: SMA Molded plastic

* Epoxy: UL94V-O rate flame retardant* Polarity: Color band denotes cathode end

* Mounting position : Any

* Weight: 0.060 gram (Approximately)

SURFACE MOUNT FAST SWITCHING RECTIFIERS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
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 at T _L = 90 °C	I _{F(AV)}	1.0							Α
Peak Forward Surge Current,									
8.3ms Single half sine wave Superimposed	I _{FSM}	30							Α
on rated load (JEDEC Method)									
Maximum Peak Forward Voltage at I _F = 1.0 A	V _F	1.3						V	
Maximum DC Reverse Current Ta = 25 °C	I _R	5							μΑ
at Rated DC Blocking Voltage Ta = 125 °C	I _{R(H)}	50							μΑ
Maximum Reverse Recovery Time (Note 1)	Trr		150		250	50	00	ns	
Typical Junction Capacitance (Note 2)	CJ	10						pF	
Thermal Resistance (Junction to Ambient)	$R_{\Theta JA}$	105						°C/W	
Thermal Resistance (Junction to Lead)	$R_{\Theta JL}$	32							°C/W
Operating Junction and Storage Temperature Range	T_J , T_{STG}	- 55 to + 150							°C

Notes:

- (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A, I_{T} = 0.25 A.
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 V_{DC}

Page 1 of 2 Rev. 07 : February 25, 2013









TH97/2478

IATF 0113686 SGS TH07/1033

RATING AND CHARACTERISTIC CURVES (RS1A - RS1M)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

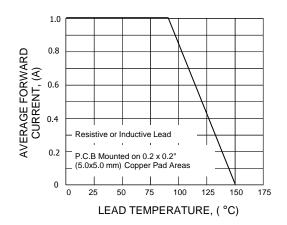


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

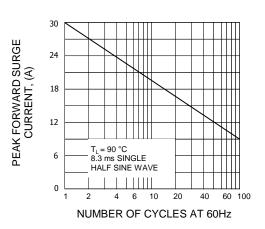


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

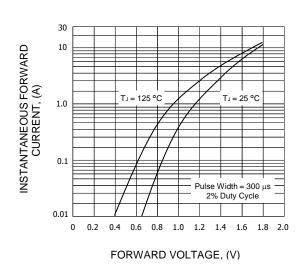
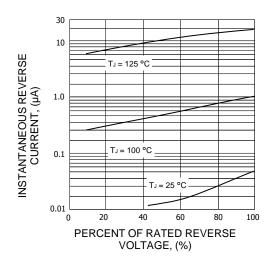


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



Page 2 of 2 Rev. 07 : February 25, 2013

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Rectifiers category:

Click to view products by EIC Semiconductor 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