

RS2A-AT THRU RS2M-AT

*****SURFACE MOUNT FAST RECOVERY RECTIFIERS

Forward Current-2A

Reverse Voltage-50V to 100V

FEATURES

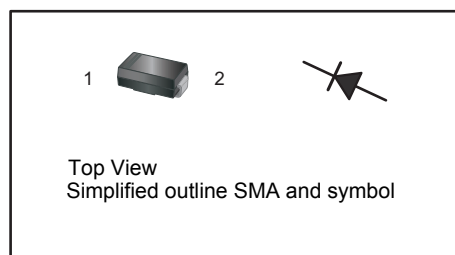
- ◆ For surface mount applications
- ◆ Glass passivated chip junction
- ◆ Low profile package
- ◆ Fast reverse recovery time
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

MECHANICAL DATA

- ◆ Case: SMA
- ◆ Terminals: Solderable per MIL-STD- 750, Method 2026
- ◆ Dimensions and tolerances as per drawing



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

PARAMETER	SYMBOL	RS2A-AT	RS2B-AT	RS28-AT	RS2M-AT	RS2L-AT	RS2P-AT	RS2S-AT	UNIT
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)}	2							A
Peak Forward Surge Current	I _{FSM}	50							A
Maximum Forward Voltage at 2.0 A	V _F	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C T _A =125°C	I _R	5 100							uA
Typical Junction Capacitance at V _R =4V, f=1MHz	C _J	22							pF
Maximum Reverse Recovery Time (Note1)	T _{rr}	150				250	500		nS
Typical Thermal Resistance (Note2)	R _{θJA} R _{θJC}	65 20							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

Notes: 1. Measured at with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

2. P.C.B. mounted with 2.0" X 2.0" (5X5 cm) copper pad areas.

Dated: /201
Rev:1.0

RS2A-AT THRU RS2M-AT

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

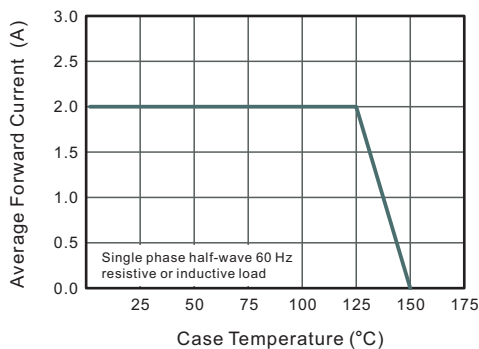


Fig.2 Typical Reverse Characteristics

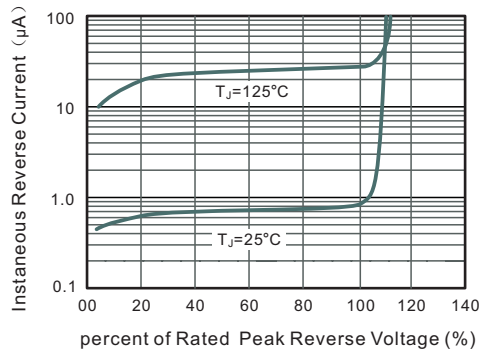


Fig.3 Typical Instantaneous Forward Characteristics

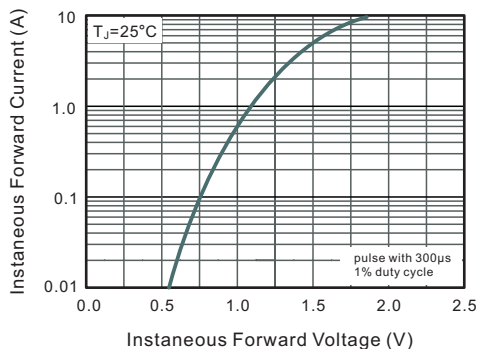


Fig.4 Typical Junction Capacitance

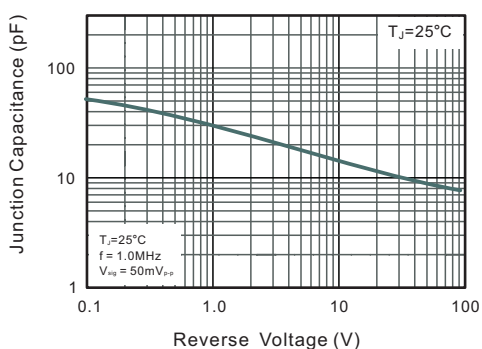
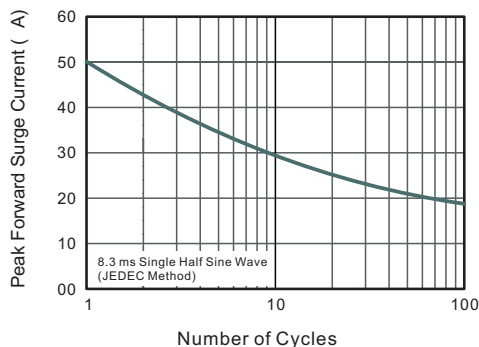


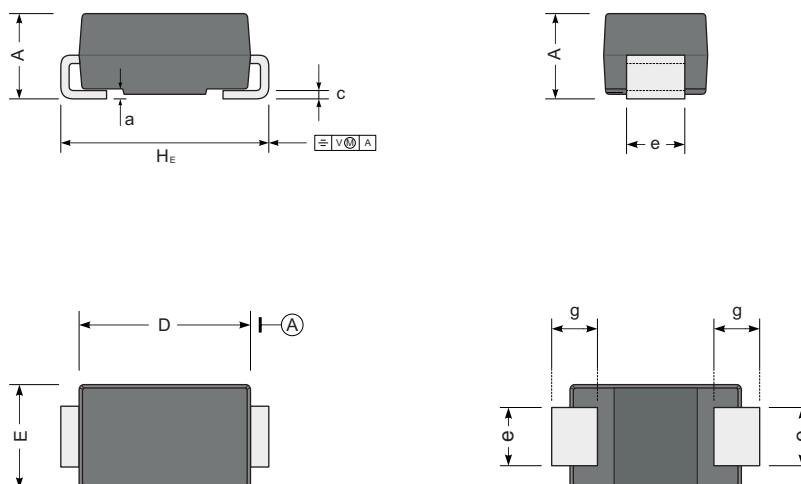
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



RS2A-AT THRU RS2M-AT

PACKAGE OUTLINE

SMA



UNIT		A	D	E	H _E	c	e	g	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

Dated: 01/2018
Rev:1.0