

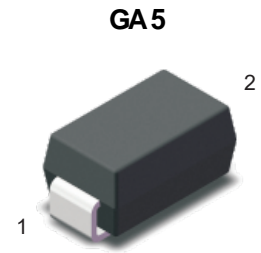


# RS2A-PJ~RS2M-PJ

## Surface Mount Fast Recovery Rectifiers

### Features

- For surface mount applications
- Glass passivated chip junction
- Fast reverse recovery time
- Low profile package



1.Cathode  2.Anode

### Marking Code:

RS2A-PJ: RS2A  
 RS2B-PJ: RS2B  
 RS2D-PJ: RS2D  
 RS2G-PJ: RS2G  
 RS2J-PJ: RS2J  
 RS2K-PJ: RS2K  
 RS2M-PJ: RS2M

### 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 derate by 20 %.

Parameter	Symbols	RS2A-PJ	RS2B-PJ	RS2D-PJ	RS2G-PJ	RS2J-PJ	RS2K-PJ	RS2M-PJ	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 $T_C = 125^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	$I_{FSM}$	50							A
Maximum Instantaneous Forward Voltage at 2A	$V_F$	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	$I_R$	5 100							$\mu\text{A}$
Typical Junction Capacitance <sup>Note1</sup>	$C_j$	22							pF
Typical Thermal Resistance <sup>Note2</sup>	$R_{\theta JA}$ $R_{\theta JC}$	65 20							$^\circ\text{C/W}$
Maximum Reverse Recovery Time <sup>Note3</sup>	$T_{rr}$	150				250	500		nS
Junction Temperature	$T_J$	150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

### Note:

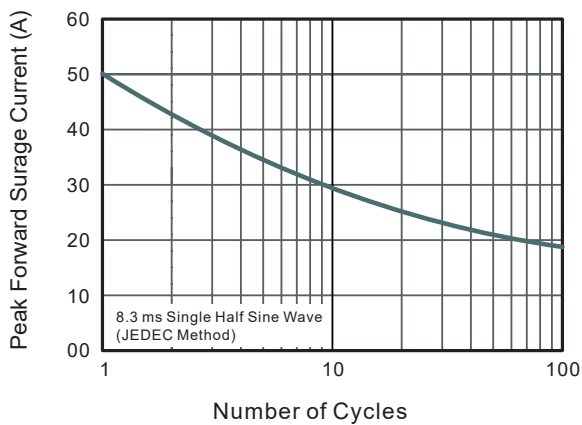
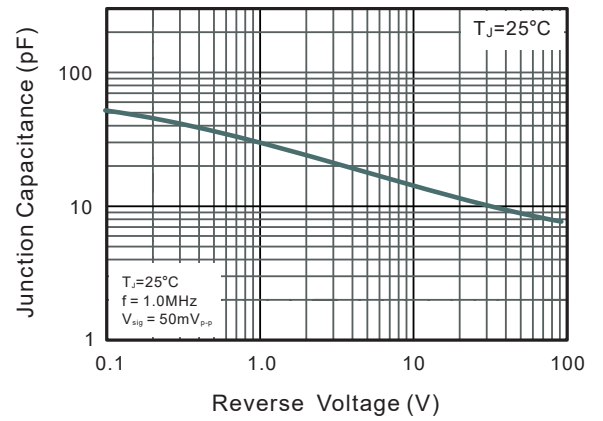
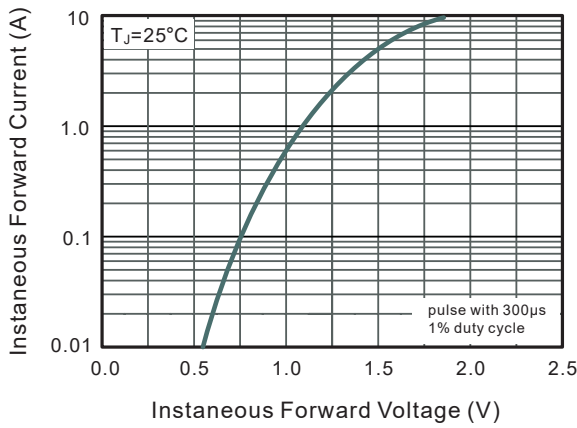
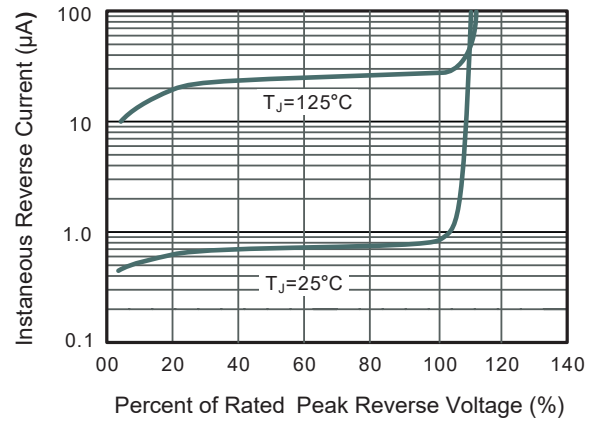
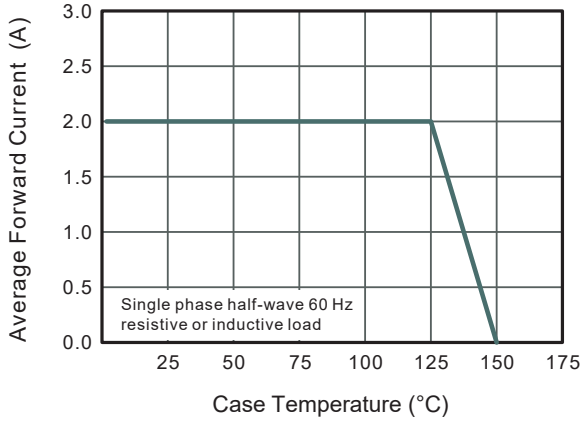
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.
3. Measured with  $I_F = 0.5\text{ A}$ ,  $I_R = 1\text{ A}$ ,  $I_{rr} = 0.25\text{ A}$



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### Typical Characteristic Curves





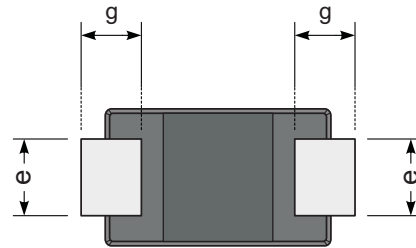
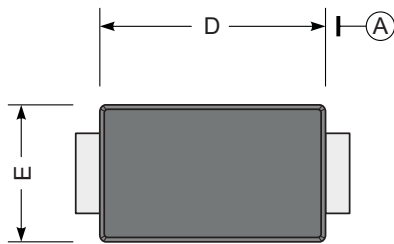
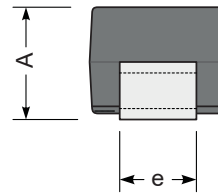
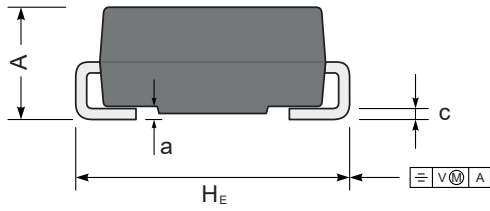
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### Package Outline

SMA

Dimensions in mm



UNIT		A	D	E	H <sub>E</sub>	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	