



Product data sheet

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SMA

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Fast switching speed

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.063 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		•						
at Ta=90°C				2.0				А
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		50				A		
Maximum Instantaneous Forward Voltage at 2.0A		1.3				V		
Maximum DC Reverse Current Ta=25°C				5.0				A
at Rated DC Blocking Voltage Ta=125°C	300			A				
Maximum Reverse Recovery Time (Note 1)		15	50		250	50	00	nS
Typical Junction Capacitance (Note 2)		50				pF		
Operating and Storage Temperature Range TJ, Tstg		-65-+150				°C		

NOTES:

1. Reverse Recovery Time test condition: IF=0.5A, IR=1.0A, IRR=0.25A

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

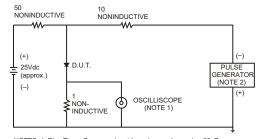


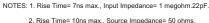


FIG.1-TYPICAL FORWARD CHARACTERISTICS 50 INSTANTANEOUS FORWARD CURRENT, (A) 10 3.0 1.0 ťj=25℃ Pulse Width 300us 1% Duty Cycle 0.1 .01 .6 .8 1.0 1.2 1.4 1.6 1.8 2.0 FORWARD VOLTAGE,(V)

FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS





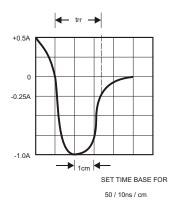
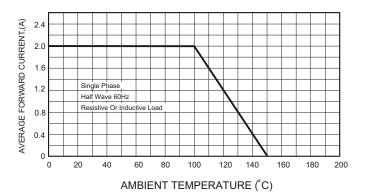
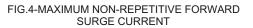
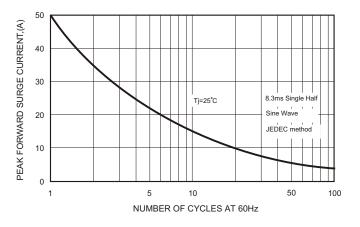


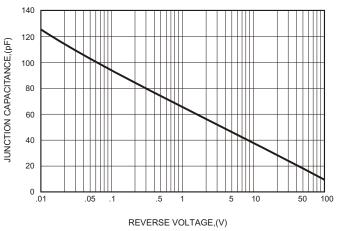
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE







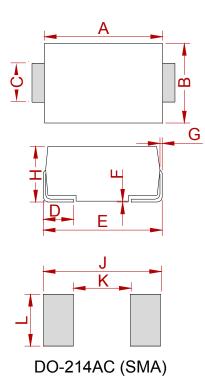








PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	. Millimeters		Inc	hes	
	Min.	Max.	Min.	Max.	
А	4.25	4.65	0.167	0.183	
В	2.50	2.90	0.098	0.114	
С	1.35	1.65	0.053	0.065	
D	0.76	1.52	0.030	0.060	
Е	4.93	5.28	0.194	0.208	
F	0.051	0.203	0.002	0.008	
G	0.15	0.31	0.006	0.012	
Н	1.98	2.41	0.078	0.095	
J	6.50		0.256		
К		2.30		0.090	
L	1.70		0.067		

REEL SPECIFICATION

	5//0	
P/N	PKG	QIY
RS2A THRU RS2M	SMA	2000

Semiconductor



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