



# Product data sheet

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SMC

### **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: 0.21 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%.

P/N(MARK)	RS5A	RS5B	RS5D	RS5G	RS5J	RS5K	RS5M	UNITS
Maximum Recurrent Peak Reverse Voltage		100	200	400	600	800	1000	V
Maximum RMS Voltage		70	140	280	420	560	700	V
Maximum DC Blocking Voltage		100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
at Ta=75°C		5.0					А	
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		150				А		
Maximum Instantaneous Forward Voltage at 5.0A		1.3					V	
Maximum DC Reverse Current Ta=25°C				5.0				μA
at Rated DC Blocking Voltage Ta=125°C	350		μA					
Maximum Reverse Recovery Time (Note 1)		15	50		250	50	00	nS
Typical Junction Capacitance (Note 2)		70				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.



#### RATING AND CHARACTERISTIC CURVES (RS5A THRU RS5M)

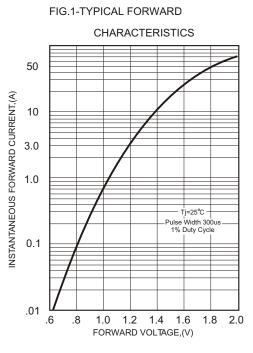
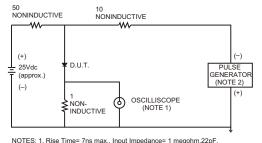
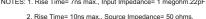


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE

RECOVERY TIME CHARACTERISTICS





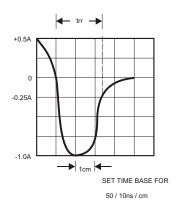
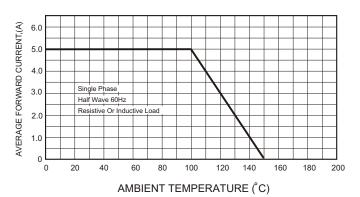
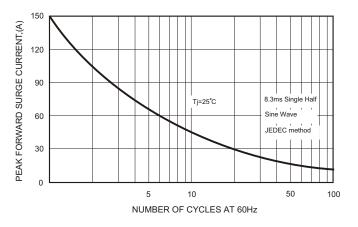


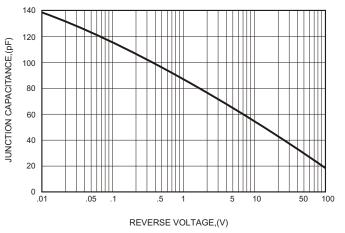
FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE









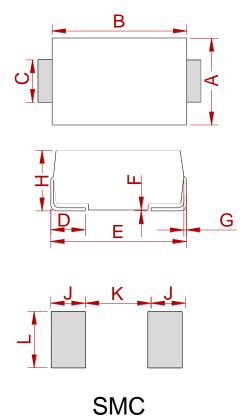




RS5A THRU RS5M IIF 🐼

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#### PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
A	5.75	6.25	0.226	0.246	
В	6.90	7.40	0.272	0.291	
С	2.75	3.25	0.108	0.128	
D	0.95	1.52	0.037	0.060	
E	7.70	8.20	0.303	0.323	
F	0.051	0.203	0.002	0.008	
G	0.15	0.31	0.006	0.012	
Н	2.15	2.62	0.085	0.103	
J	2.40		0.094		
К		4.20		0.165	
L	3.30		0.130		

REEL SPECIFICATION		
P/N	PKG	QTY
RS5A THRU RS5M	SMC	3000



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