

RS1A thru RS1M

SURFACE MOUNT FAST RECOVERY RECTIFIERS

REVERSE VOLTAGE - **50** to **1000** Volts FORWARD CURRENT - **1.0** Ampere

FEATURES

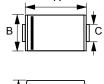
- Fast switching for high efficiency
- For surface mounted applications
- Glass passivated chip
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0

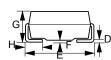
MECHANICAL DATA

• Case : Molded plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounces, 0.064 grams

SMA





SMA									
DIM.	MIN.	MAX.							
Α	4.06	4.57							
В	2.29	2.92							
С	1.27	1.63							
D	0.15	0.31							
Е	4.83	5.59							
F	0.05	0.20							
G	2.01	2.40							
Н	0.76	1.52							
All Dimensions in millimeter									

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $\!\!\!\!\!\!\!^{\circ}_{\circ}$ ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL =90°C	I(AV)				1.0				Α
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM				30				А
Maximum forward Voltage at 1.0A DC	VF				1.3				V
Maximum DC Reverse Current @TJ =25°C at Rated DC Blocking Voltage @TJ =125°C	lR	5.0 200							uA
Maximum Reverse Recovery Time (Note 1)	TRR		1	50		250	5	00	ns
Typical Junction Capacitance (Note 2)	Сл				15				pF
Typical Thermal Resistance (Note 3)	Rejl	30					°C/W		
Operating Temperature Range	TJ	-55 to +150					°C		
Storage Temperature Range	Tstg	-55 to +150					°C		
NOTES: 1 Payarea Pagayary Toot Conditionals=0.5A lp=1.0A lpp=0.25A								- A O 4	

NOTES: 1.Reverse Recovery Test Conditions:IF=0.5A,IR=1.0A,IRR=0.25A.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal Resistance Junction to Lead.

REV. 4, May-2009, KSEA01



