DC COMPONENTS CO., LTD.

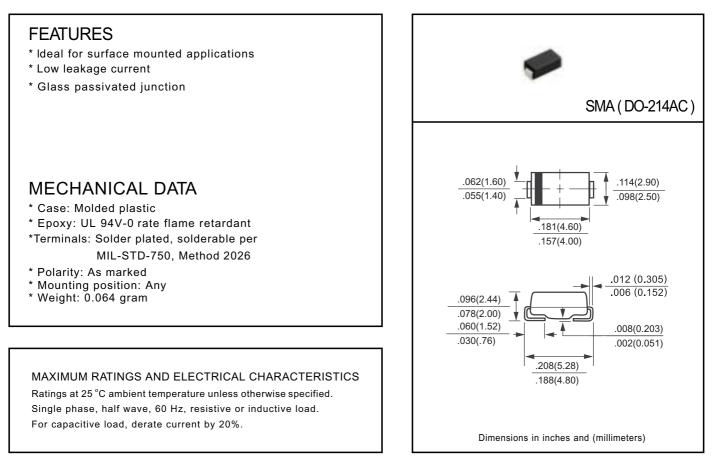
RECTIFIER SPECIALISTS

RS1AG THRU RS1MG

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

CURRENT - 1.0 Ampere



		SYMBOL	RS1AG	RS1BG	RS1DG	RS1GG	RS1JG	RS1KG	RS1MG	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30						Amps	
Maximum Forward Voltage at 1.0A DC		VF	1.3						Volts	
Maximum DC Reverse Current at	@TA = 25°C	5.0							uAmps	
Rated DC Blocking Voltage	@TA = 125°C		150							
Maximum Reverse Recovery Time (Note 3)		trr		150			250	5	00	nSec
Maximum Thermal Resistance (Note 2)		R0JL	30							⁰C/W
Typical Junction Capacitance (Note 1)		CJ	15							pF
Operating and Storage Temperature Range		TJ, TSTG	-65 to + 175						٥C	

NOTES : 1. Measured at 1.0 MHz and applied reverse voltage of 4.0VDC

2. Thermal Resistance (Junction to Ambient), 24in² (6.0mm²) copper pads to each terminal.

3. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

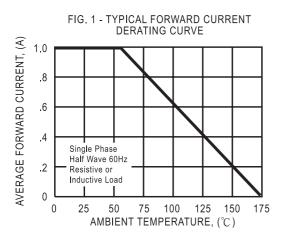
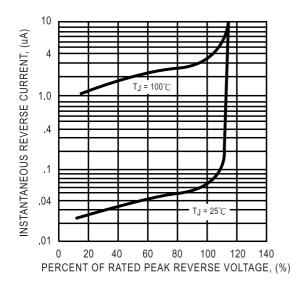
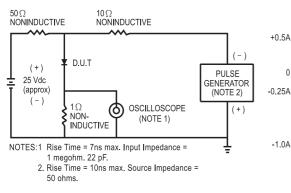
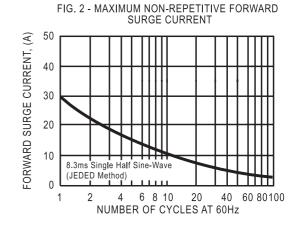


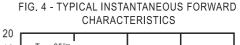
FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

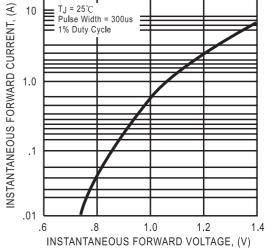


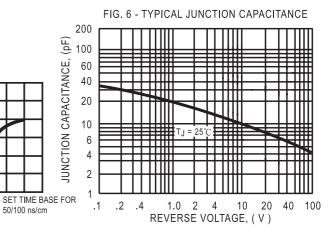












DC COMPONENTS CO., LTD.

trr

→1cm

50/100 ns/cm