# DC COMPONENTS CO., LTD.

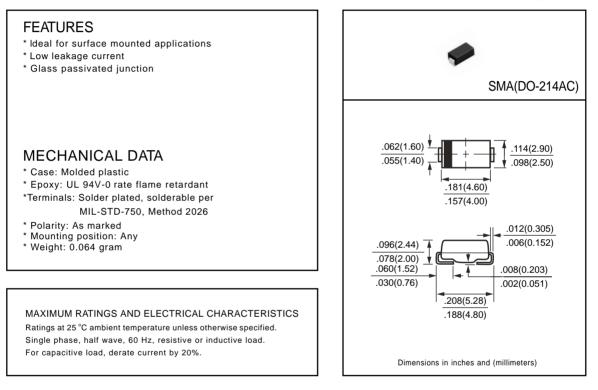
### **RECTIFIER SPECIALISTS**

ES1A THRU ES1J

### TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SUPER FAST RECTIFIER

#### VOLTAGE RANGE 50 to 600 Volts

### CURRENT 1.0 Ampere

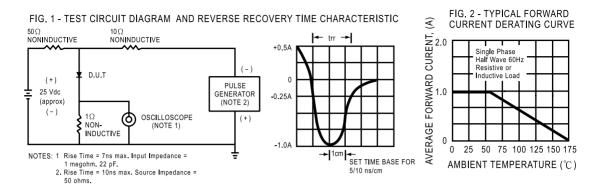


		SYMBOL	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		Vrms	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at TA = 55°C		lo	1.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	30						Amps	
Maximum Forward Voltage at 1.0A DC		VF	0.95 1.25 1.7				1.7	Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Ta = 25°C	In	5.0							μAmps
	@TA = 100°C	lr.	100							
Maximum Reverse Recovery Time (Note 1)		trr	35							nSec
Typical Junction Capacitance (Note 2)		CJ	15 10						pF	
Operating and Storage Temperature Range		TJ, TSTG	-65 to +175						٥C	

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

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

## RATING AND CHARACTERISTIC CURVES (ES1A THRU ESIJ)





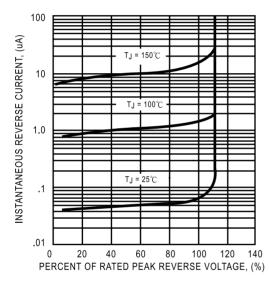


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

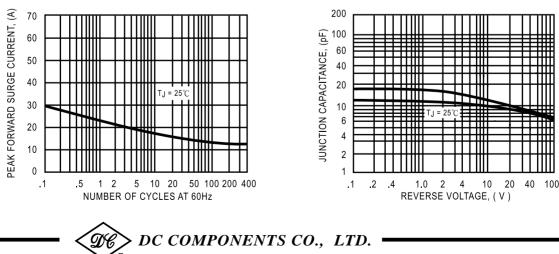


FIG. 4 - TYPICAL INSTANTANEOUS

