DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

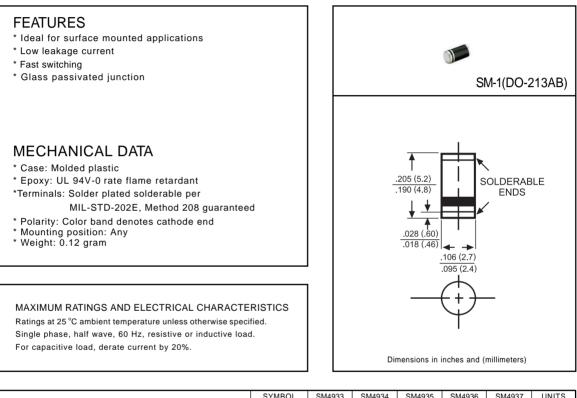
SM4933

SM4937

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

CURRENT -1.0 Ampere



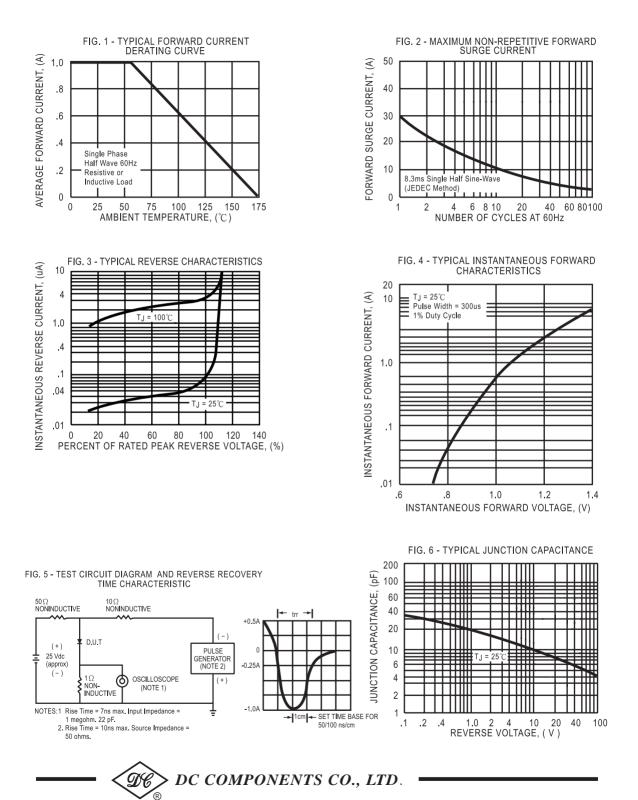
		SYMBOL	SM4933	SM4934	SM4935	SM4936	SM4937	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current TA = 55°C		lo	1.0					Amps
Peak Forward 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	1.3				Volts	
Maximum DC Reverse Current at	@TA = 25°C	IR		5.0			uAmps	
Rated DC Blocking Voltage	@TA = 125°C	IR	100					unips
Maximum Reverse Recovery Time (Note 3)		trr	150 250			nSec		
Maximum Thermal Resistance (Note 2)		RθJL	30					°C/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

RATING AND CHARACTERISTIC CURVES (SM4933 THRU SM4937)



291