DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

THRU

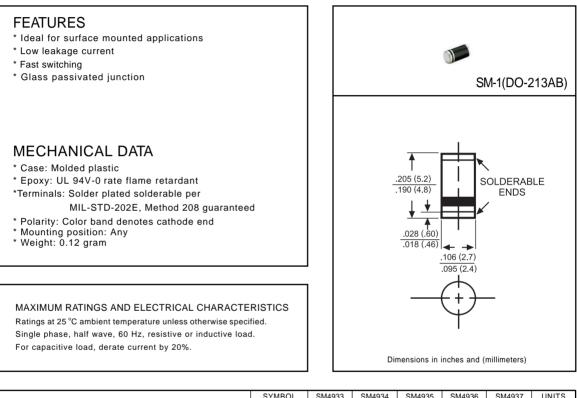
SM4933

SM4937

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

CURRENT -1.0 Ampere



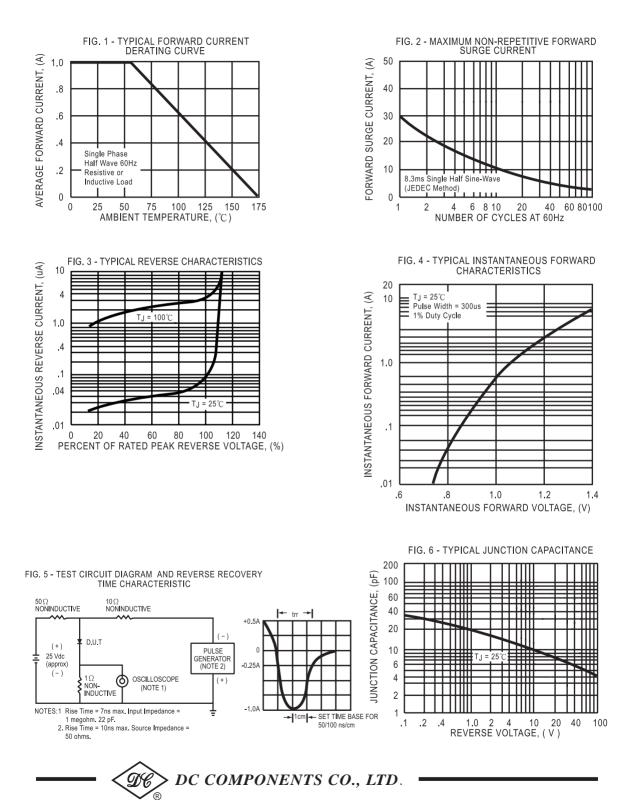
| | | SYMBOL | SM4933 | SM4934 | SM4935 | SM4936 | SM4937 | UNITS |
|---|-------------|----------|--------------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | | Vrrm | 50 | 100 | 200 | 400 | 600 | Volts |
| Maximum RMS Voltage | | Vrms | 35 | 70 | 140 | 280 | 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