

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	S153	S183	S203	S253	S303	S353	S403	S503	UNITS
Regulator current at specified test	IP	15	18	20	25	30	35	40	50	mA
Knee impedance test voltage at I=0.8IP	Vк	3.0								VOLTS
Peak operating voltage	Vво	100.0 90.0							VOLTS	
A 90Hz signal Vk with RMS value equal to 10% of test voltage,Vk ,is superimposed on Vk:Rk=Vk/lk	Rdk	10 to 300								Ohm
DC power	Ptot	1.0								Watt
Operating junction and storage temperature range	TJ,TSTG	-50 to +150							°C	
Typical temperature coefficient	Тс	-0.230.32 -0.230.35					%/°C			

Note: 1. Field-effect current regulator diodes are circuit elements that provide a current essentially independent of voltage. These diodes are especially designed for maximum impedance over the operating range. These devices may be used in parallel to obtain higher currents.

2.Generally I<sub>P</sub> indicate  $\pm$ 10% tolerance ; suffix "A" indicate  $\pm$ 5% tolerance.



## RATINGS AND CHARACTERISTIC CURVES S153 THRU S503



Application Example:





 $\label{eq:configuration} \begin{array}{l} \text{The best configuration of the LED quantity:} \\ 3(v) + n \times V(\text{LED}) \thicksim 50 \ (v) + n \times V(\text{LED})_{DC} \\ \text{(}n: \text{the number of LED; } V(\text{LED}): \text{the voltage difference of LED} \text{)} \end{array}$ 





