

SST503



## Linear Systems replaces discontinued Siliconix SST503

Current Regulator Diode — Pov (min) 45 V

Description:	Features:					
The SST503 belongs to a family of $\pm 20\%$ range current regulators designed for demanding applications in test equipment and instrumentation. These devices utilize JFET techniques to produce a device which is extremely simple to operate.	<ul> <li>Surface-Mount Package</li> <li>Guaranteed ±20% Tolerance</li> <li>Pov (min) 45V</li> <li>Good Temperature Stability</li> </ul>					
SST503 Applications:	Benefits:					
<ul> <li>Constant-Current Supply</li> <li>Current-Limiting</li> <li>Timing Circuits</li> </ul>	<ul> <li>Simple Series Circuitry, No Separate Voltage Source</li> <li>Tight Guaranteed Circuit Performance</li> <li>Excellent Performance in Low-Voltage / Battery Circuits and High-Voltage Spike Protection</li> </ul>					

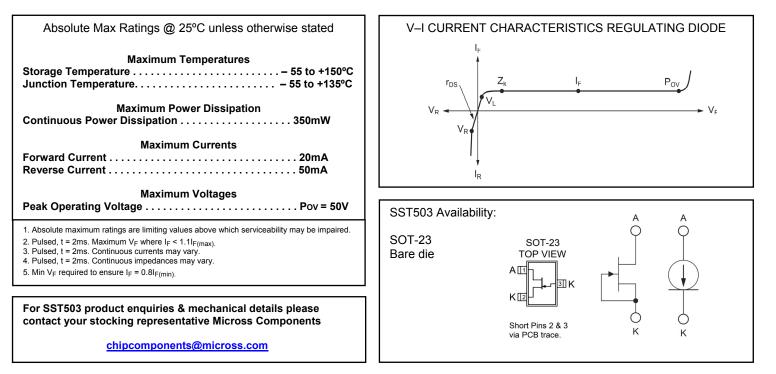
High Circuit Stability vs. Temperature

SST503 Electrical Characteristics @ 25°C (Unless otherwise stated)

SYMBOL	CHARACTERISTIC	MIN	TYP	MAX	UNITS	CONDITIONS
Pov	Peak Operating Voltage <sup>2</sup>	45			V	$I_F = 1.1I_{F(max)}$
V <sub>R</sub>	Reverse Voltage		0.8		V	I <sub>R</sub> = 1mA
C <sub>F</sub>	Forward Capacitance		1.5		pF	V <sub>F</sub> = 25V, <i>f</i> = 1MHz

SST503 Specific Electrical Characteristics @ 25°C (Unless otherwise stated)

PART	Forward Current <sup>³</sup> I <sub>F</sub>			Dynamic lı Z	, <del>-</del>	Knee Impedance Z <sub>k</sub>	Limiting Voltage⁵ V∟	
	V <sub>F</sub> = 25V			V <sub>F</sub> = 25V		V <sub>F</sub> = 6V	$I_F = 0.8I_{F(min)}$	
	MIN	NOM	MAX	MIN	TYP	TYP	TYP	MAX
SST503	0.448	0.56	0.672	0.7	2.0	0.5	1.7	0.7



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