



## Linear Systems replaces discontinued Siliconix SST511

Current Regulator Diode — P<sub>OV</sub> (min) 45 V

Description:	Features:					
The SST511 belongs to a family of ±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>					
SST511 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> <li>High Circuit Stability on Tomperature</li> </ul>					

High Circuit Stability vs. Temperature

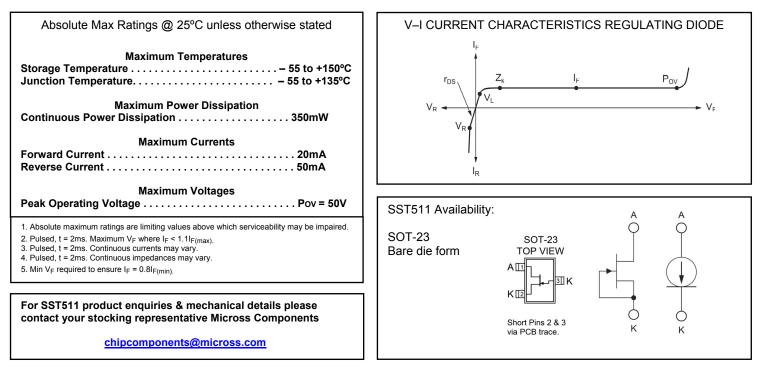
SST511 Electrical Characteristics @ 25°C (Unless otherwise stated)

NEAR SYSTEMS

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

SST511 Specific Electrical Characteristics @ 25°C (Unless otherwise stated)

PART	Fo	Forward Current <sup>3</sup> I <sub>F</sub>		Dynamic Iı Z		Knee Impedance Z <sub>k</sub>	Limiting V	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	ТҮР	ТҮР	ТҮР	MAX	
SST511	3.800	4.70	5.600	0.07	0.2	0.03	4.2	2.1	



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