

SST505



Linear Systems replaces discontinued Siliconix SST505

Current Regulator Diode — Pov (min) 45 V

Description:	Features:					
The SST505 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.	 Surface-Mount Package Guaranteed ±20% Tolerance Pov (min) 45V Good Temperature Stability 					
SST505 Applications:	Benefits:					
 Constant-Current Supply Current-Limiting Timing Circuits 	 Simple Series Circuitry, No Separate Voltage Source Tight Guaranteed Circuit Performance Excellent Performance in Low-Voltage / Battery Circuits and High-Voltage Spike Protection 					

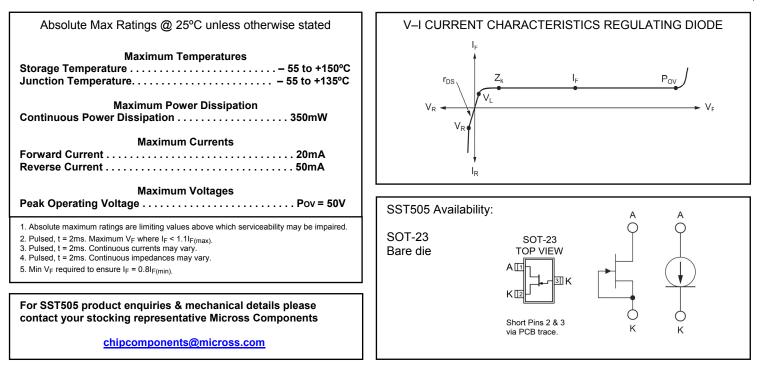
High Circuit Stability vs. Temperature

SST505 Electrical Characteristics @ 25°C (Unless otherwise stated)

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

SST505 Specific Electrical Characteristics @ 25°C (Unless otherwise stated)

PART	Forward Current ^³ I _F			Dynamic Iı Z	npedance⁴ ′d	Knee Impedance Z _k	Limiting Voltage⁵ V∟	
	V _F = 25V			V _F = 25V		V _F = 6V	$I_F = 0.8I_{F(min)}$	
	MIN	NOM	MAX	MIN	TYP	TYP	TYP	MAX
SST505	0.800	1.00	1.200	0.4	1.0	0.3	2.1	0.9



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