

Motorola

MSS 1000
MSS 1001

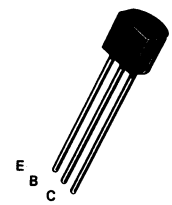
**CONSTANT VOLTAGE REFERENCE DIODE
FOR LOW VOLTAGE APPLICATIONS**

... a high-conductance silicon diode designed as a stable forward reference source for biasing transistor amplifiers and similar applications.

FORWARD REFERENCE DIODE

ABSOLUTE MAXIMUM RATINGS

Characteristics	Symbol	Ratings	Unit
Total Device Dissipation at $T_A = 25^\circ\text{C}$	P_D	350	mW
Thermal Resistance Junction to Ambient	θ_{JA}	357	$^\circ\text{C/W}$
Junction Temp.-Operating	T_j	150	$^\circ\text{C}$
Storage Temp. Range	T_{stg}	-55 to +150	$^\circ\text{C}$
Collector Current	I_C	100	mAdc
Collector-Base Voltage	V_{CB}	18	Vdc



ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristics	Symbol	Min.	Typ	Max	Units	
Forward Reference Voltage ($I_F = 10\text{mAdc}$)	V_F	MSS1000	0.78	0.82	0.86	Volts
		MSS1001	0.67	0.82	1.0	
Reverse Current ($V_R = 2.0\text{ Vdc}$)	I_R	-	-	0.1	μAdc	
Reverse Voltage ($I_{BR} = 100\mu\text{Adc}$)	$V_{(BR)}$	5.0	-	-	Volts	

These devices utilize the standard TO-92 package using the C to B leads only.

