

#### **ABSOLUTE MAXIMUM RATINGS** (Tcase = $25^{\circ}$ C)

Symbol	Parameter	Value	Unit V	
V <sub>CE</sub>	Collector-Emitter	20		
lc	Collector Current	300	mA	
PD	Total Device Dissipation	5	W	
Тj	Junction Temperature	200	°C	
T <sub>stg</sub>	Storage Temperature Range	-65 + 150	°C	

### **Thermal Data**

R <sub>TH(J-C)</sub>	Thermal Resistance Junction-case	35	°C/W
		· · · · · · · · · · · · · · · · · · ·	-

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

#### Quality Semi-Conductors

## MS2203

# **ELECTRICAL SPECIFICATIONS (Tcase = 25^{\circ}C)** static

Symbol BV <sub>CEO</sub>	T. I.O. wildland	Value			Unit	
		Test Conditions	Min.	Тур.	Max.	Unit
	l <sub>c</sub> = 5.0 mA	I <sub>в</sub> =0 mA	20			V
BV <sub>CBO</sub>	I <sub>c</sub> = 1.0 mA	I <sub>E</sub> = 0 mA	50			V
BVEBO	I <sub>E</sub> = 1.0 mA	l <sub>c</sub> = 0 mA	3.5			V
ICES	V <sub>CE</sub> = 28 V				1.0	mA
h <sub>FE</sub>	V <sub>CE</sub> = 5.0 V	l <sub>c</sub> = 100 mA	15		120	

## DYNAMIC

Symbol	Test Conditions		Value		
		Min.	Тур.	Max.	Unit
Роит	f = 1025 – 1150 MHz P <sub>IN</sub> = 50mW	0.6	0.85		W
G <sub>PE</sub>	f = 1025 – 1150 MHz P <sub>IN</sub> = 50 mW	10.8	12.3		dB

Conditions: V<sub>CE</sub> = 18V

lcq = 120 mA