



MSC80183

# NPN RF TRANSISTOR

## DESCRIPTION:

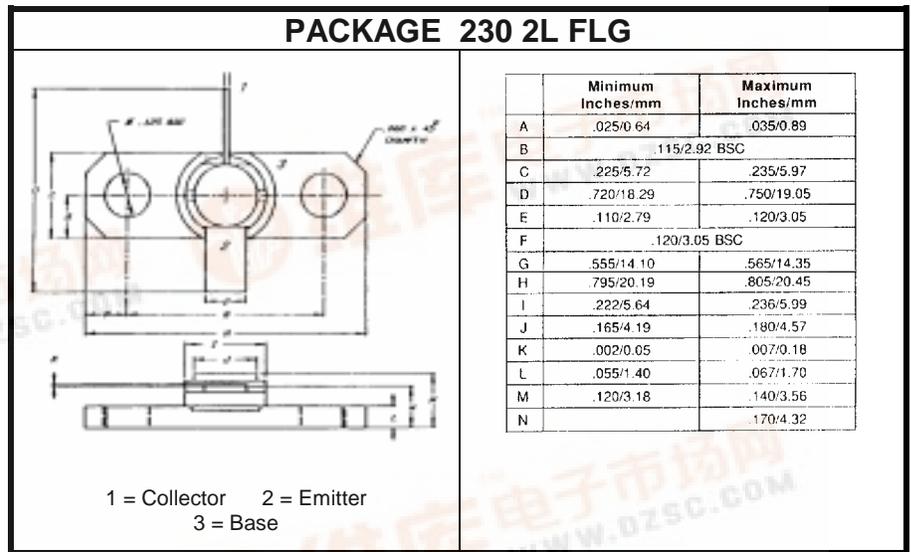
The **ASI MSC80183** is a Silicon NPN Microwave Transistor Supplied in a Common Base Package, Designed for Amplifier/Oscillator Applications up to 2.3 GHz.

## FEATURES:

- Hermetically Sealed Package
- Gold Metallization

## MAXIMUM RATINGS

$I_C$	1.2 A
$V_{CC}$	26 V
$V_{EB}$	3.5 V
$P_{DISS}$	21.4 W @ $T_C = 50\text{ }^\circ\text{C}$
$T_J$	-65 $^\circ\text{C}$ to +200 $^\circ\text{C}$
$T_{STG}$	-65 $^\circ\text{C}$ to +200 $^\circ\text{C}$
$\theta_{JC}$	7.0 $^\circ\text{C/W}$



## CHARACTERISTICS $T_C = 25\text{ }^\circ\text{C}$

SYMBOL	TEST CONDITIONS	MINIMUM	TYPICAL	MAXIMUM	UNITS
$BV_{CER}$	$I_C = 5.0\text{ mA}$ $R_{BE} = 10\Omega$	44			V
$BV_{CBO}$	$I_C = 1.0\text{ mA}$	44			V
$BV_{EBO}$	$I_E = 1.0\text{ mA}$	3.5			V
$I_{CBO}$	$V_{CB} = 22\text{ V}$			0.5	mA
$h_{FE}$	$V_{CE} = 5.0\text{ V}$ $I_C = 500\text{ mA}$	30		300	
$C_{OB}$	$V_{CB} = 22\text{ V}$ $f = 1.0\text{ MHz}$			8.5	pF
$P_{out}$		7.0	8.0		W
$P_G$	$V_{CC} = 22\text{ V}$ $P_{IN} = 0.76\text{ W}$ $f = 2.3\text{ GHz}$	9.6	10.2		Db
$\eta$		40	45		%

