

SOT23 PNP SILICON PLANAR R.F. TRANSISTORS

ZBF569 ZBF579

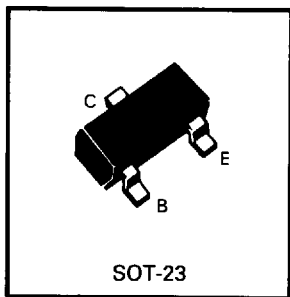
FEATURES.

- * HIGH f_T UP TO 2.4GHz.
- * LOW NOISE <3.3dB AT 500MHz

PARTMARKING DETAILS

ZBF569 – F69

ZBF579 – F79



SOT-23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	ZBF569	ZBF579	UNIT
Collector-Base Voltage	V_{CB0}	35	25	V
Collector-Emitter Voltage	V_{CE0}	35	25	V
Emitter-Base Voltage	V_{EB0}	3	3	V
Continuous Collector Current	I_C	30	30	mA
Peak Pulse Current	I_{CM}	50	50	mA

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$ unless otherwise stated).

Parameter	Symbol	ZBF569			ZBF579			Unit	Test Conditions
		Min.	Typ.	Max.	Min.	Typ.	Max.		
Collector Cut-Off Current	I_{CBO}			10			10	nA	$I_E=0, V_{CB}=-10V$
							10	μA	$I_E=0, V_{CB}=-10V, T_J=100^\circ C$
Static Forward Current Transfer Ratio	H_{FE}				25		150		$I_C=-2mA, V_{CE}=-1.0V$
		25		150					$I_C=-3mA, V_{CE}=-1.0V$
					20		150		$I_C=-25mA, V_{CE}=-1.0V$
Transition Frequency	f_T		1.5			2.4		GHz	$I_C=-10mA, V_{CE}=-10V, f=500MHz$
Feedback Capacitance	$-C_{re}$		0.8			0.9		pF	$I_C=-1mA, V_{CE}=-10V, f=500MHz$
Noise Figure	N		3.5			3.3		dB	$I_C=-1mA, V_{CE}=-5V, R_S=50\Omega, f=500MHz$