

NTE2643 Silicon NPN Transistor, VHF/UHF Low Noise Amp (Surface Mount)

Features:

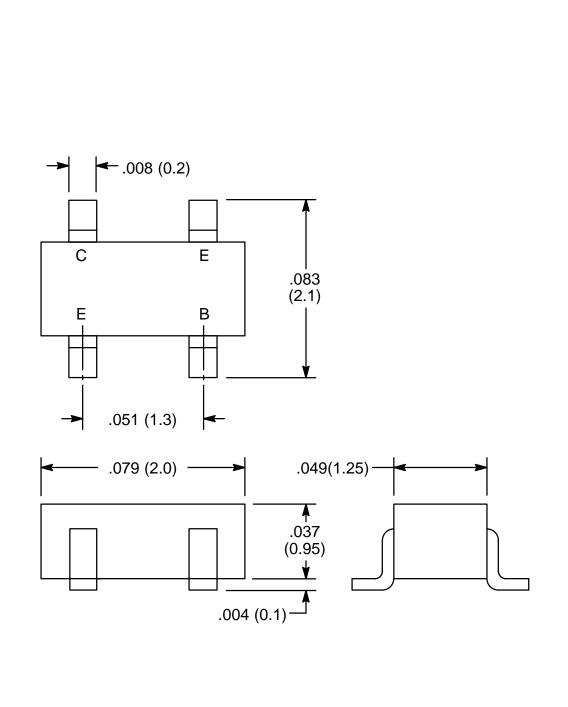
- Low Noise Figure, High Gain
- NF = 1.1dB, $|S_{21e}|^2 = 13dB$ (f = 1GHz)

Absolute Maximum Ratings: (T _A = +25°C unless otherwise specified)	
Collector–Base Voltage, V _{CBO}	20V
Collector–Emitter Voltage, V _{CEO}	12V
Emitter–Base Voltage, V _{EBO}	3V
Collector Current, I _C	80mA
Base Current, I _B	40mA
Collector Power Dissipation, P _C	100mW
Operating Junction Temperature, T _J	+125°C
Storage Temperature Range, T _{stg}	55° to +125°C

<u>Electrical Characteristics:</u> (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector Cutoff Current	I _{CBO}	$V_{CB} = 10V, I_{E} = 0$	-	_	1	μΑ
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 1V, I_{C} = 0$	_	_	1	μΑ
DC Current Gain	h _{FE}	$V_{CE} = 10V, I_{C} = 20mA$	80	_	240	
Output Capacitance	C _{ob}	$V_{CB} = 10V$, $I_{E} = 0$, $f = 1MHz$, Note 1	_	1.1	1.6	pF
Reverse Transfer Capacitance	C _{re}		_	0.65	1.05	pF
Transition Frequency	f _T	V _{CE} = 10V, I _C = 20mA	5	7	_	GHz
Insertion Gain	S _{21e} ²	$V_{CE} = 10V, I_{C} = 20mA, f = 500MHz$	_	18	_	dB
		V _{CE} = 10V, I _C = 20mA, f = 1GHz	9.5	13.0	_	dB
Noise Figure	NF	$V_{CE} = 10V, I_{C} = 5mA, f = 500MHz$	_	1	_	dB
		V _{CE} = 10V, I _C = 5mA, f = 1GHz	ı	1.1	2.0	dB

Note $\,$ 1. $\,$ C_{re} is measured by 3 terminal method with capacitance bridge.



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