

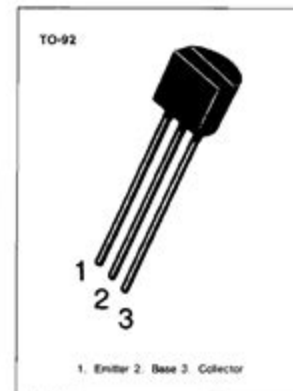


PRE-AMPLIFIER, LOW LEVEL & LOW NOISE

- High total power dissipation. (PT=450mW)
- High h_{FE} and good linearity
- Complementary to SS9015

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	50	V
Collector-Emitter Voltage	V_{CEO}	45	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	100	mA
Collector Dissipation	P_C	450	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = 100\mu\text{A}, I_E = 0$	50			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 1\text{mA}, I_E = 0$	45			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_C = 100\mu\text{A}, I_C = 0$	5			V
Collector Cutoff Current	I_{CBO}	$V_{CE} = 50\text{V}, I_E = 0$			50	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$			50	nA
DC Current Gain	h_{FE}	$V_{CE} = 5\text{V}, I_C = 1\text{mA}$	60	280	1000	
Collector-Base Saturation Voltage	$V_{CE(sat)}$	$I_C = 100\text{mA}, I_E = 5\text{mA}$		0.14	0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 100\text{mA}, I_E = 5\text{mA}$		0.84	1.0	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = 5\text{V}, I_C = 2\text{mA}$	0.58	0.63	0.7	V
Output Capacitance	C_{ob}	$V_{CE} = 10\text{V}, I_C = 0$ $f = 1\text{MHz}$		2.2	3.5	pF
Current Gain-Bandwidth Product	f_T	$V_{CE} = 5\text{V}, I_C = 10\text{mA}$	150	270		MHz
Noise Figure	NF	$V_{CE} = 5\text{V}, I_C = 0.2\text{mA}$ $f = 1\text{KHz}, R_s = 2\text{K}\Omega$		0.9	10	dB

h_{FE} CLASSIFICATION

Classification	A	B	C	D
h_{FE}	60-150	100-300	200-600	400-1000



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STP40NF03L N-channel 30 V, 0.018 Ω, 40 A TO-220, TO-220FP StripFET™ Power MOSFET Features Low threshold device Application Switching applications Description This Power MOSFET is the latest development of STMicroelectronics unique "single feature size" strip-based process. The resulting transistor shows extremely high packing density for ...

N-channel 30 V, 0.018 Ω, 40 A TO-220, TO-220FP StripFET ...

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