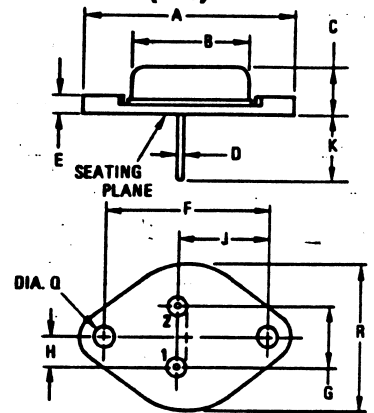


2N5613

7.5 AMPERE
POWER TRANSISTOR
PNP SILICON



STYLE 1:
 PIN 1. BASE
 2. EMITTER
 CASE: COLLECTOR

NOTE:
 1. DIM "Q" IS DIA.

MAXIMUM RATING

Rating	Symbol		Unit
Collector-Emitter Voltage	V _{CEO}	80	Vdc
Collector-Base Voltage	V _{CB}	100	Vdc
Emitter-Base Voltage	V _{EB}	10	Vdc
Collector Current-Continuous	I _C	7.5	Adc
Base Current - Continuous	I _B	4.0	Adc

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	—	39.37	—	1.550
B	—	21.08	—	0.830
C	6.35	7.62	0.250	0.300
D	0.99	1.09	0.039	0.043
E	—	3.43	—	0.135
F	29.90	30.40	1.177	1.197
G	10.67	11.18	0.420	0.440
H	5.33	5.59	0.210	0.220
J	16.64	17.15	0.655	0.675
K	11.18	12.19	0.440	0.480
Q	3.84	4.09	0.151	0.161
R	—	28.67	—	1.050

Collector connected to case.

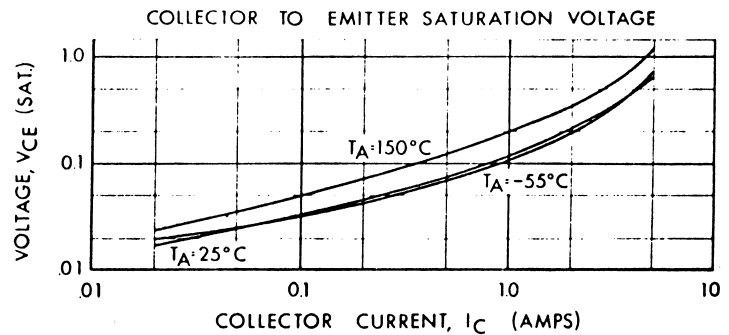
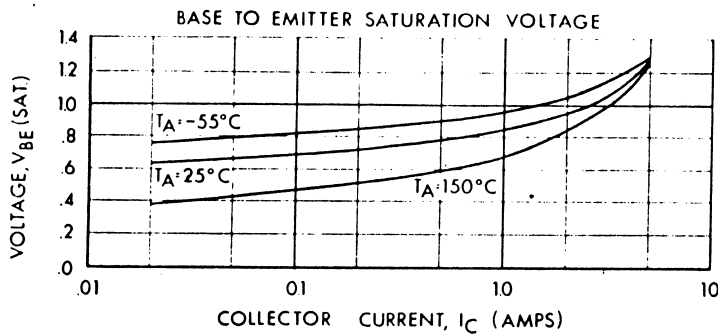
(TO-3)

ELECTRICAL CHARACTERISTICS (T_C = 25°C unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Emitter-Base Cutoff Current (V _{EB} = 10 Vdc)	I _{EBO}	—	—	0.25	mAdc
Collector-Emitter Cutoff Current (V _{CE} = 80 Vdc, V _{BE} = -1 Vdc) (V _{CE} = 80 Vdc, V _{BE} = -1 Vdc, T _C = 150°C)	I _{CEX}	—	—	0.1 1.0	mAdc
Collector-Emitter Cutoff Current (V _{CE} = 60 Vdc, I _B = 0)	I _{CEO}	—	—	1.0	mAdc
Collector-Base Breakdown Voltage (I _C = 1 mAdc, I _E = 0)	BV _{CB0}	100	—	—	Vdc
Collector-Emitter Sustaining Voltage (I _C = 100 mAdc, I _B = 0)	V _{CEO(sus)}	80	—	—	Vdc
DC Current Gain (I _C = 0.5 Adc, V _{CE} = 5 Vdc) (I _C = 5 Adc, V _{CE} = 5 Vdc)	h _{FE}	20 40 40	45 85 75	— — 120	—
Collector-Emitter Saturation Voltage (I _C = 5 Adc, I _B = 0.5 Adc)	V _{CE(sat)}	—	0.8	1.5	Vdc
Base-Emitter Saturation Voltage (I _C = 5 Adc, I _B = 0.5 Adc)	V _{BE(sat)}	—	1.0	1.5	Vdc
Base-Emitter Voltage (I _C = 5 Adc, V _{CE} = 5 Vdc)	V _{BE}	—	1.0	1.4	Vdc
Small Signal Current Gain (V _{CE} = 10 Vdc, I _C = 0.5 Adc, f = 1 KHz) (V _{CE} = 10 Vdc, I _C = 0.5 Adc, f = 10 MHz)	h _{fe}	40 1.0	— 1.6	200 —	—
Common Base Output Capacitance (V _{CB} = 10 Vdc, f = 0.1 MHz)	C _{ob}	—	260	400	pf
Switching Times (V _{CC} = 25 Vdc, R _L = 5 ohms, I _C = 5 A, I _{B1} = I _{B2} = 0.5 A)	t _d + t _r	—	0.15	0.35	μs
Delay Time plus Rise Time	t _s	—	0.9	2.0	μs
Storage Time	t _s	—	0.15	0.35	μs
Fall Time	t _f	—	—	—	μs

SILICON PNP TRANSISTOR (5 Amp)

TYPE NUMBER	CASE SIZE	BREAKDOWN VOLTAGES			h_{FE}				CUTOFF CURRENT	
		V_{CB}	V_{CE}	V_{EB}	V_{CE} @	I_C @ A	Min.	Max.	V_{CB} @	(μA)
2N5611	TO-66	-120	-100	-5.5	-5.0	-2.5	30	90	-120	-1.0 ma



PACKAGE DIMENSIONS

