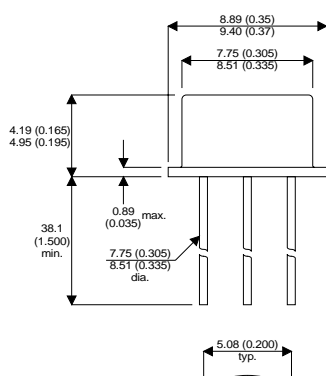


MECHANICAL DATA

Dimensions in mm



TO-5

Pin1 - Emitter

Pin2 - Base

Pin3 - Collector

**SMALL SIGNAL
PNP TRANSISTORS
IN TO-5**

APPLICATIONS

Small signal PNP transistors for relay switching resistor logic circuits and general purpose applications.

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

V_{CBO}	Collector – Base Voltage	-64V
V_{CEX}	Collector – Emitter Voltage	-64V
V_{CE}	Collector – Emitter Voltage ($I_C = 500mA$)	-60V
V_{EBO}	Emitter – Base Voltage	-12V
$I_{C(PK)}$	Peak Collector Current	500mA
$I_{C(AV)}$	Continuous Collector Current	250mA
I_{EM}	Emitter Peak Current	500mA
$I_{E(AV)}$	Continuous Emitter Current	250mA
I_{BM}	Base Peak Current	125mA
$I_{B(AV)}$	Continuous Base Current	125mA
P_{TOT}	Total Power Dissipation	410mW
T_J	Junction Temperature	150°C
T_{stg}	Storage Temperature	150°C

THERMAL CHARACTERISTICS

CHARACTERISTIC		
θ_{j-amb}	Junction To Ambient	0.3°C/mW
θ_{j-case}	Junction To Case	0.12°C/mW

ELECTRICAL CHARACTERISTICS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit	
I_{CBO}	$V_{CB} = -6V$ $I_E = 0$		1	100	nA	
	$V_{CB} = -6V$ $I_E = 0$ $T_{amb} = 100^{\circ}C$		0.1	2.5	μA	
I_{EBO}	$V_{EB} = -6V$ $I_C = 0$		1	100	nA	
	$V_{EB} = -6V$ $I_C = 0$ $T_{amb} = 100^{\circ}C$		0.1	2.5	μA	
h_{FE}	$I_C = 30mA$ $V_{CE} = -1V$	12	30		—	
	$I_C = 150mA$ $V_{CE} = -1V$	10		50		
	$I_{CM} = 300mA$ $V_{CE} = -6V$		15			
$V_{CE(SAT)}$	Collector-Emitter Saturation Voltage		-0.46	-1.1	V	
V_{BE}	Base-Emitter Voltage		-1.5	-1.9		
I_B	Base Current		3	14	mA	
NF	Noise Figure		8		dB	
h_{fe}	Small Signal Current Gain		15	35	100	—
f_T	Transistion Frequency		0.45	1.5	MHz	

* Pulse test : Pulse Width < 300 μs ,Duty Cycle < 2%



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