



DC COMPONENTS CO., LTD.

DISCRETE SEMICONDUCTORS

DXT5401

TECHNICAL SPECIFICATIONS OF PNP EPITAXIAL PLANAR TRANSISTOR

Description

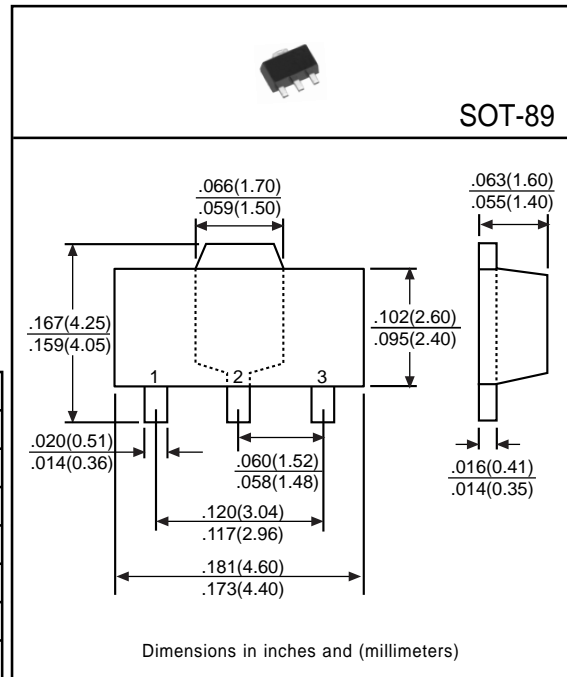
Designed for general purpose applications requiring high breakdown voltages.

Pinning

- 1 = Base
- 2 = Collector
- 3 = Emitter

Absolute Maximum Ratings(T_A=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CB0}	-160	V
Collector-Emitter Voltage	V _{CE0}	-150	V
Emitter-Base Voltage	V _{EB0}	-5	V
Collector Current	I _C	-500	mA
Total Power Dissipation	P _D	1	W
Junction Temperature	T _J	+150	°C
Storage Temperature	T _{STG}	-55 to +150	°C



Electrical Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified)

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV _{CB0}	-160	-	-	V	I _C =-100μA
Collector-Emitter Breakdown Voltage	BV _{CE0}	-150	-	-	V	I _C =-1mA
Emitter-Base Breakdown Voltage	BV _{EB0}	-5	-	-	V	I _E =-10μA
Collector Cutoff Current	I _{CB0}	-	-	-50	nA	V _{CB} =-120V
Emitter Cutoff Current	I _{EB0}	-	-	-50	nA	V _{EB} =-5V
Collector-Emitter Saturation Voltage ⁽¹⁾	V _{CE(sat)1}	-	-	-0.2	V	I _C =-10mA, I _B =-1mA
	V _{CE(sat)2}	-	-	-0.5	V	I _C =-50mA, I _B =-5mA
Base-Emitter Saturation Voltage ⁽¹⁾	V _{BE(sat)1}	-	-	-1	V	I _C =-10mA, I _B =-1mA
	V _{BE(sat)2}	-	-	-1	V	I _C =-50mA, I _B =-5mA
DC Current Gain ⁽¹⁾	h _{FE1}	50	-	-	-	I _C =-1mA, V _{CE} =-5V
	h _{FE2}	60	-	240	-	I _C =-10mA, V _{CE} =-5V
	h _{FE3}	50	-	-	-	I _C =-50mA, V _{CE} =-5V
Transition Frequency	f _T	100	-	-	MHz	V _{CE} =-10V, f=100MHz, I _C =-10mA
Output Capacitance	C _{ob}	-	-	6	pF	V _{CB} =-10V, f=1MHz

(1)Pulse Test: Pulse Width ≤380μs, Duty Cycle ≤2%