



DC COMPONENTS CO., LTD.
DISCRETE SEMICONDUCTORS

DMBTA64

TECHNICAL SPECIFICATIONS OF PNP DARLINGTON TRANSISTOR

Description

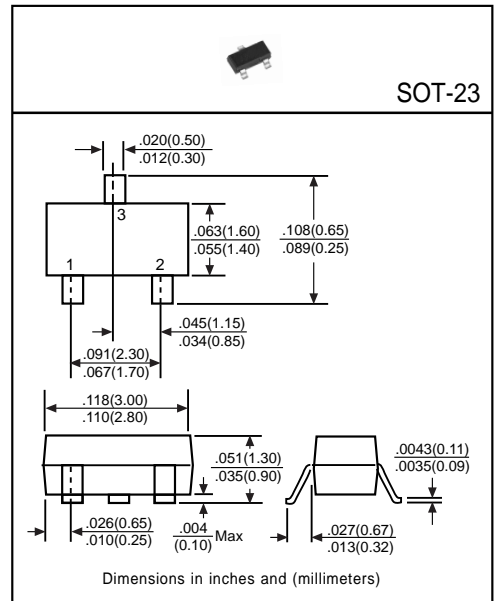
Designed for applications requiring high current gain.

Pinning

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

Absolute Maximum Ratings (TA=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	VCBO	-30	V
Collector-Emitter Voltage	VCEs	-30	V
Emitter-Base Voltage	VEBO	-10	V
Collector Current	IC	-500	mA
Total Power Dissipation	PD	225	mW
Junction Temperature	TJ	+150	°C
Storage Temperature	TSTG	-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}	-30	-	-	V	I _C =-100μA
Collector-Emitter Breakdown Voltage	BV _{CEs}	-30	-	-	V	I _C =-100μA
Emitter-Base Breakdown Voltage	BV _{EB0}	-10	-	-	V	I _E =-10μA
Collector Cutoff Current	I _{CBO}	-	-	-100	nA	V _{CB} =-30V
Emitter Cutoff Current	I _{EBO}	-	-	-100	nA	V _{EB} =-10V
Collector-Emitter Saturation Voltage ⁽¹⁾	V _{CE(sat)}	-	-	-1.5	V	I _C =-100mA, I _B =-0.1mA
Base-Emitter On Voltage	V _{BE(on)}	-	-	-2	V	I _C =-100mA, V _{CE} =-5V
DC Current Gain ⁽¹⁾	h _{FE1}	10K	-	-	-	I _C =-10mA, V _{CE} =-5V
	h _{FE2}	20K	-	-	-	I _C =-100mA, V _{CE} =-5V
Transition Frequency	f _T	125	-	-	MHz	I _C =-100mA, V _{CE} =-5V, f=100MHz

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