

ELECTRICAL CHARACTERISTICS (T_c = 25°C UNLESS OTHERWISE NOTED)

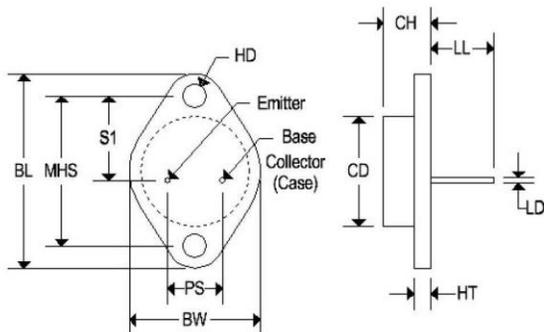
Characteristic	Symbol	Min	Max	Unit
ON CHARACTERISTICS⁽¹⁾				
DC Current Gain (I _c = 0.5 A, V _{CE} = 4.0 V) (I _c = 2.5 A, V _{CE} = 4.0 V) (I _c = 7.0 A, V _{CE} = 4.0 V)	h _{FE}	35 20 4.0	100	
Collector-Emitter Saturation Voltage (I _c = 4.0 A, I _B = 0.4 A) (I _c = 7.0 A, I _B = 1.75 A)	V _{CE(sat)}		1.0 2.0	V
Base-Emitter Saturation Voltage (I _c = 7.0 A, I _B = 1.75 A)	V _{BE(sat)}		2.5	V
Base-Emitter On Voltage (I _c = 2.5 A, V _{CE} = 4.0 V)	V _{BE(on)}		1.5	V
DYNAMIC CHARACTERISTICS				
Current Gain – Bandwidth Product⁽²⁾ (I _c = 0.25 A, V _{CE} = 10 V, f = 1.0 MHz)	f _r	4.0		MHz
Small-Signal Current Gain (I _c = 0.5 A, V _{CE} = 4.0 V, f = 1.0 KHz)	h _{re}	20		

(1) Pulse Test: Pulse width = 300μs, Duty Cycle ≤ 2.0%

(2) $f_r = |h_{fe}| \cdot f_{test}$

MECHANICAL CHARACTERISTICS

Case:	TO-66
Marking:	Alpha-numeric
Polarity:	See below



Dim	TO-66			
	Inches		Millimeters	
	Min	Max	Min	Max
BL	1.205	1.280	30.60	32.50
CD	0.445	0.557	11.303	14.148
CH	0.257	0.284	6.540	7.220
LL	0.374	0.413	9.500	10.50
BW	0.680	0.727	17.26	18.46
LD	0.030	0.036	0.760	0.920
HT	0.054	0.065	1.380	1.650
MHS	0.951	0.976	24.16	24.78
S1	0.545	0.614	13.84	15.60
HD	0.131	0.154	3.320	3.920
PS	0.191	0.210	4.860	5.340