THERMAL DATA

$R_{thj\text{-}case}$	Thermal Resistance Junction-case	Max	1.17	°C/W

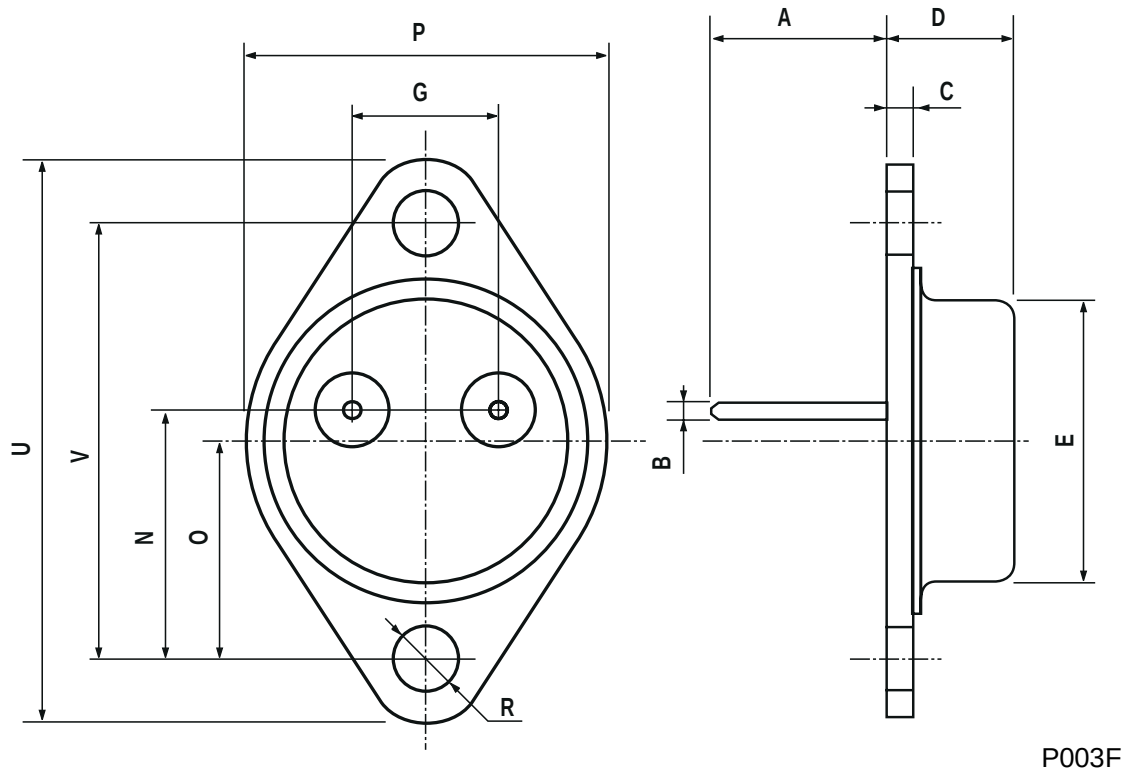
ELECTRICAL CHARACTERISTICS (T_{case} = 25 °C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
I_{CEV}	Collector Cut-off Current (V_{BE} = -1.5V)	for **2N3771** V_{CB} = 50 V for **2N3772** V_{CB} = 100 V for all V_{CB} = 30 V T_j = 150 °C			2 5 10	mA mA mA
I_{CEO}	Collector Cut-off Current (I_B = 0)	for **2N3771** V_{CB} = 30 V for **2N3772** V_{CB} = 50 V			10 10	mA mA
I_{CBO}	Collector Cut-off Current (I_E = 0)	for **2N3771** V_{CB} = 50 V for **2N3772** V_{CB} = 100 V			4 5	mA mA
I_{EBO}	Emitter Cut-off Current (I_C = 0)	for **2N3771** V_{CB} = 5 V for **2N3772** V_{CB} = 7 V			5 5	mA mA
$V_{CEO(sus)}$*	Collector-Emitter Sustaining Voltage (I_B = 0)	I_C = 0.2 A for **2N3771** for **2N3772**	 40 60			 V V
$V_{CEV(sus)}$*	Collector-Emitter Sustaining Voltage (V_{EB} = -1.5V)	I_C = 0.2 A R_{BE} = 100 Ω for **2N3771** for **2N3772**	 50 80			 V V
$V_{CER(sus)}$*	Collector-Emitter Sustaining Voltage (R_{BE} = 100 Ω)	I_C = 0.2 A for **2N3771** for **2N3772**	 45 70			 V V
$V_{CE(sat)}$*	Collector-Emitter Saturation Voltage	for **2N3771** I_C = 15 A I_B = 1.5 A I_C = 30 A I_B = 6 A for **2N3772** I_C = 10 A I_B = 1 A I_C = 20 A I_B = 4 A			 2 4 1.4 4	 V V V V
V_{BE}*	Base-Emitter Voltage	for **2N3771** I_C = 15 A V_{CE} = 4 V for **2N3772** I_C = 10 A V_{CE} = 4 A			 2.7 2.7	 V V
h_{FE}*	DC Current Gain	for **2N3771** I_C = 15 A V_{CE} = 4 V I_C = 30 A V_{CE} = 4 V for **2N3772** I_C = 10 A V_{CE} = 4 V I_C = 20 A V_{CE} = 4 V	 15 5 15 5		 60 60	
h_{FE}	Small Signal Current Gain	I_C = 1 A V_{CE} = 4 V f = 1 KHz	40			
f_T	Transition frequency	I_C = 1 A V_{CE} = 4 V f = 50 KHz	0.2			MHz
$I_{s/b}$	Second Breakdown Collector Current	V_{CE} = 25 V t = 1 s (non repetitive)	6			A

* Pulsed: Pulse duration = 300 µs, duty cycle ≤ 2 %

TO-3 MECHANICAL DATA

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	11.00		13.10	0.433		0.516
B	0.97		1.15	0.038		0.045
C	1.50		1.65	0.059		0.065
D	8.32		8.92	0.327		0.351
E	19.00		20.00	0.748		0.787
G	10.70		11.10	0.421		0.437
N	16.50		17.20	0.649		0.677
P	25.00		26.00	0.984		1.023
R	4.00		4.09	0.157		0.161
U	38.50		39.30	1.515		1.547
V	30.00		30.30	1.187		1.193



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