



NPN-POWER TRANSISTOR



2N6371 TO-3 Metal Can Package

ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	VALUE	UNITS
Collector-base voltage (open emitter)	V _{CBO}	50	V
Collector-base voltage (open base)	V _{CEO}	40	V
Collector-emitter voltage (R_{BE} =100 Ω)	V _{CER}	45	V
Collector-emitter voltage (V_{BE} =1.5V, R_{BE} =100 Ω)	V _{CEX}	50	V
Emitter-base voltage (open collector)	V _{EBO}	5.0	V
Collector current	I _c	15	Α
Base current	I _B	7	Α
Total power dissipation up to T _c =25°C	P _{tot}	117	W
Junction temperature	T _J	200	°C
Storage temperature	T _{stg}	-65 to 200	°C

THERMAL RESISTANCE

PARAMETER SYMBOL		VALUE	UNITS
from junction to case	R _{th J-C}	1.5	°C/W







$\textbf{ELECTRICAL CHARACTERISTICS} \; (T_{_{\!A}}\text{=}25^{\circ}\text{C unless otherwise specified})$

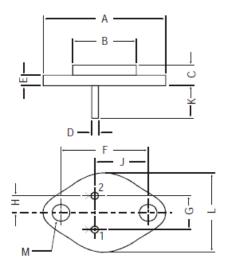
PARAMETER	CVMDOL	TEST CONDITIONS	VALUE		LINITO	
PARAIVIETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS	
Collector-emitter cut-off current	I _{CEO}	V _{CE} =25V, I _B =0	-	1.5	mA	
Collector cut off current	I _{CEV}	V _{CE} =45V, V _{BE} =1.5V	-	2	mA	
Collector cut-off current		$V_{CE} = 40V, V_{EB(off)} = 1.5V,$ $T_{C} = 150^{\circ}C$	-	10	mA	
Emitter cut-off current	l _{EBO}	$I_C=0, V_{EB}=5V$	-	10	mA	
Collector -emitter sustaining voltage	llector -emitter		40	-	V	
Collector-base voltage	V_{CBO}	$I_c=1$ mA, $I_E=0$	50	_	V	
Emitter-base voltage V _{EBO}		$I_{\rm E}$ =1mA, $I_{\rm C}$ =0	5	_	V	
Collector-emitter	V _{CEsat} *	I _C = 8 A, I _B = 0.8 A	-	1.5	V	
saturation voltage		I _C = 16 A, I _B = 4 A	-	4.0	V	
Base emitter on voltage	V _{BE(on)} *	I _C = 16A , V _{CE} = 4V	-	4.0	V	
D.C. Current gain	h _{FE} *	I _C = 8A , V _{CE} = 4V	15	60		
D.C. Current gain		I _C = 16A , V _{CE} = 4V	4	_		
Small signal current gain	h _{fe}	I _C = 1 A, V _{CE} = 4V, f=1KHz	10	-		
Transition frequency	$f_{_{ m T}}$	I _C = 1 A, V _{CE} = 4V	0.8	-	MHz	

^{*} Pulsed: Pulse duration = 300 μs; duty factor = 1.8%

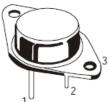




TO-3 Metal Can Package



	DIM	MIN.	MAX.
	Α	_	39.37
	В	-	22.22
	С	6.35	8.50
	D	0.96	1.09
	Ε	-	1.77
	F	29.90	30.40
in mm.	G	10.69	11.18
.⊑	Н	5.20	5.72
All dimensions	J	16.64	17.15
	K	11.15	12.25
	L	_	26.67
¥	М	3.84	4.19



PIN CONFIGURATION 1. BASE

- 2. EMITTER
- 3. COLLECTOR

Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTIER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	GrWt
TO-3	100 pcs/pkt	1.3 kg/100 pcs	12.5" x 8" x 1.8"	0.1K	17" x 11.5" x 21"	2K	27.5 kgs





Customer Notes:

Component Disposal Instructions

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

DISCLAIMER

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