

Continental Device India Pvt. Limited
An ISO/TS 16949, ISO 9001 and ISO 14001 Certified Company



NPN-POWER TRANSISTOR



2N6257 TO-3 Metal Can Package

ABSOLUTE MAXIMUM RATING

PARAMETER	SYMBOL	VALUE	UNITS
Collector-base voltage (open emitter)	V _{CBO}	50	\ \
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	\ \
Emitter-base voltage (open collector)	V _{EBO}	5.0	V
Collector current	I _c	20	Α
Collector current (peak)	I _c	30	Α
Base current	l _B	5	Α
Base current (peak)	l _B	15	Α
Total power dissipation up to T _c =25°C	P _{tot}	150	W
Derate above 25°C		0.855	W/°C
Junction temperature	T _J	200	°C
Storage temperature	T _{stg}	-65 to 200	٥

THERMAL RESISTANCE

PARAMETER	SYMBOL	VALUE	UNITS
from junction to case	R _{th J-C}	1.17	°C/W





ELECTRICAL CHARACTERISTICS (T_A =25°C unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	VALUE		UNITS
	01111202	1201 001121110110	MIN	MAX	514110
Collector -base cut-off current	I _{CBO}	$V_{CB} = 50V, I_{E} = 0$	-	4	mA
Collector-emitter cut-off current	I _{CEO}	V _{CE} =25V, I _B =0	-	10	mA
Collector cut-off current	I _{CEV}	V _{CE} =45V, V _{EB(off)} =1.5V	_	4	mA
Collector cut-on current		$V_{CE} = 45V, V_{EB(off)} = 1.5V,$ $T_{C} = 150^{\circ}C$	_	20	mA
Emitter cut-off current	I _{EBO}	I _C =0, V _{EB} =5V	-	10	mA
Collector -emitter sustaining voltage	V _{CEO(sus)} *	I _C =0.2A, I _B =0	40	-	V
Collector-base voltage	V _{CBO}	$I_c=1$ mA, $I_e=0$	50	_	V
Emitter-base voltage	V _{EBO}	I _E =1mA, I _C =0	5	-	V
Collector-emitter	V _{CEsat} *	I _C = 8 A, I _B = 0.8 A	-	1.5	V
saturation voltage		I _C = 20 A, I _B = 4 A	_	4.0	V
Base emitter on voltage	V _{BE(on)} *	I _C = 8A , V _{CE} = 4V	-	2.2	V
D.C. Commont agin	h _{FE} *	I _C = 8A , V _{CE} = 4V	15	75	
D.C. Current gain		I _C = 20A , V _{CE} = 4V	5	-	
Small signal current gain	h _{fe}	I _C = 1 A, V _{CE} = 4V, f=1KHz	40	-	
Transition frequency	f _T	I _C = 1 A, V _{CE} = 4V, f=50KHz	0.2	-	MHz

^{*}Pulse test: 300 µs; rep rate = 60 cps

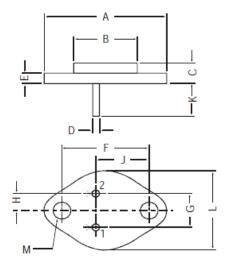


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TO-3 Metal Can Package



	DIM	MIN.	MAX.
	Α	_	39.37
	В	-	22.22
	С	6.35	8.50
	D	0.96	1.09
	Ε	-	1.77
in mm.	F	29.90	30.40
	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



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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).

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