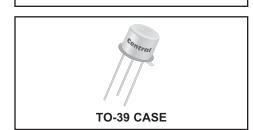


NPN SILICON TRANSISTOR



Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N2270 is a NPN silicon transistor, mounted in a hermetically sealed package, designed for general purpose amplifier applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL	UNITS	
Collector-Base Voltage	V _{CBO}	60	V
Collector-Emitter Voltage	VCER	60	V
Collector-Emitter Voltage	V _{CEO}	45	V
Emitter-Base Voltage	V _{EBO}	7.0	V
Continuous Collector Current	IС	1.0	А
Power Dissipation	PD	1.0	W
Power Dissipation (T _C =25°C)	PD	5.0	W
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +200	°C
Thermal Resistance	Θ_{JA}	175	°C/W
Thermal Resistance	ΘJC	35	°C/W

ELECTRICAL CHARACTERISTICS: (T_C=25°C unless otherwise noted)

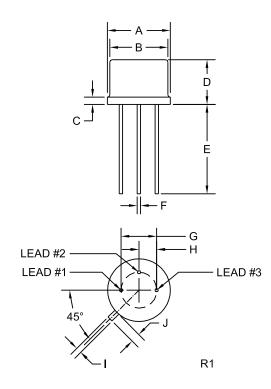
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =60V		50	nA
IСВО	V _{CB} =60V, (T _C =150°C)		50	μΑ
I _{EBO}	V _{EB} =5.0V		100	nA
BVCBO	Ι _C =100μΑ	60		V
BVCER	I _C =100mA, R _{BE} =10Ω	60		V
BVCEO	I _C =100mA	45		V
BVEBO	Ι _Ε =100μΑ	7.0		V
V _{CE(SAT)}	I _C =150mA, I _B =15mA		0.9	V
V _{BE(SAT)}	I _C =150mA, I _B =15mA		1.2	V
h _{FE} `´´	V _{CE} =10V, I _C =1.0mA	30		
h _{FE}	V _{CE} =10V, I _C =150mA	50	200	
h _{fe}	V _{CE} =10V, I _C =5.0mA, f=1.0kHz	50	275	
fT	V _{CE} =10V, I _C =50mA	100		MHz
Cob	V _{CB} =10V, I _E =0		15	pF
C _{ib}	V _{BE} =0.5V, I _C =0		80	pF
NF	V _{CE} =10V, I _C =0.3mA, f=1.0kHz,			
	$R_{G}^{=1.0k\Omega}$, BW=1.0Hz		10	dB
				R0 (17-August 2012)



2N2270

NPN SILICON TRANSISTOR

TO-39 CASE - MECHANICAL OUTLINE



DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.335	0.370	8.51	9.40		
B (DIA)	0.315	0.335	8.00	8.51		
С	-	0.040	-	1.02		
D	0.240	0.260	6.10	6.60		
E	0.500	-	12.70	-		
F (DIA)	0.016	0.021	0.41	0.53		
G (DIA)	0.200		5.08			
Н	0.100		2.54			
	0.028	0.034	0.71	0.86		
J	0.029	0.045	0.74	1.14		
TO-39 (REV: R1)						

LEAD CODE:

1) Emitter 2) Base

3) Collector

MARKING: FULL PART NUMBER

R0 (17-August 2012)

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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities

Special wafer diffusions

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- Application and design sample kits

· Custom bar coding for shipments

Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp. 145 Adams Avenue Hauppauge, NY 11788 USA Main Tel: (631) 435-1110 Main Fax: (631) 435-1824 Support Team Fax: (631) 435-3388 www.centralsemi.com

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