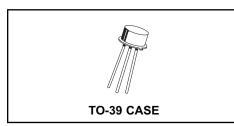


PNP SILICON POWER TRANSISTOR





DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5333 is a PNP Silicon Power Transistor manufactured by the epitaxial planar process, mounted in a hermetically sealed metal case, designed for amplifier and switching applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _C =25°C) Collector-Base Voltage	SYMBOL V _{CBO}	100	UNITS V
Collector-Emitter Voltage	VCEO	80	V
Emitter-Base Voltage	V _{EBO}	6.0	V
Continuous Collector Current	ЧС	2.0	А
Peak Collector Current (t _p ≤ 0.3ms)	ICM	5.0	А
Continuous Base Current	۱ _B	1.0	А
Power Dissipation (T _A =25°C)	PD	1.0	W
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +200	°C
Thermal Resistance	Θ_{JA}	175	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
ICES	V _{CE} =90V			10	μA
ICES	V _{CE} =50V (T _C =150°C)			500	μA
ICEO	V _{CE} =40V			50	μA
IEBO	V _{EB} =4.0V			1.0	μA
IEBO	V _{EB} =6.0V			100	μA
BV _{CEO}	I _C =30mA	80			V
V _{CE(SAT)}	I _C =1.0A, I _B =100mA			0.45	V
V _{CE(SAT)}	I _C =2.0A, I _B =400mA			1.0	V
V _{BE(ON)}	V _{CE} =4.0V, I _C =2.0A			1.5	V
h _{FE}	V _{CE} =4.0V, I _C =1.0A	30		120	
h _{FE}	V _{CE} =4.0V, I _C =2.0A	10			
h _{fe}	V _{CE} =10V, I _C =1.0A, f=1KHz	30			
fT	V _{CE} =10V, I _C =1.0A	30			MHz
^t on	I _C =1.0A, I _{B1} =I _{B2} =100mA		150		ns
^t off	$\{ I_{C}=1.0A, I_{B1}=I_{B2}=100mA \ V_{BE(OFF)}=3.7V, R_{L}=20\Omega \}$		450		ns

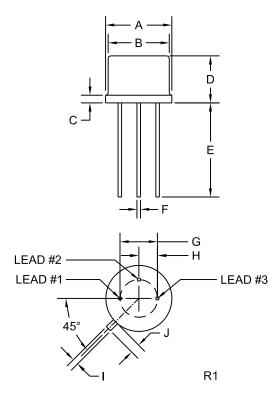
R0 (25-September 2008)



2N5333

NPN SILICON POWER 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		

LEAD CODE:

1) EMITTER

2) BASE

3) COLLECTOR (case)

MARKING: FULL PART NUMBER

TO-39 (REV: R1)

R0 (25-September 2008)

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

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