2N5179

SILICON **NPN RF TRANSISTOR**



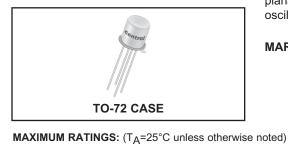
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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N5179 type is a silicon NPN RF transistor, manufactured by the epitaxial planar process, designed for VHF/UHF amplifier, oscillator, and converter applications.

MARKING: FULL PART NUMBER



SYMBOL UNITS Collector-Base Voltage 20 _VСВО Collector-Emitter Voltage 12 **VCEO** Emitter-Base Voltage 2.5 VEBO Continuous Collector Current 50 mΑ I_{C} Power Dissipation P_{D} 200 mWPower Dissipation (T_C=25°C) P_{D} 300 $\, mW \,$ °C Operating and Storage Junction Temperature -65 to +200

Thermal Resistance 0.58 °C/mW Θ JC °C/mW Thermal Resistance 0.87 Θ_{JA}

T_J, T_{stg}

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

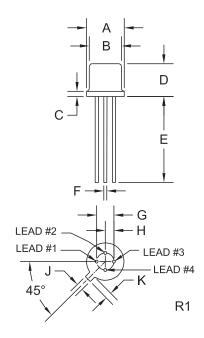
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I _{CBO}	V _{CB} =15V		20	nA
ICBO	V _{CB} =15V, T _A =150°C		1.0	μΑ
BV _{CBO}	I _C =1.0μA	20		V
BVCEO	I _C =3.0mA	12		V
BV_{EBO}	I _E =10μA	2.5		V
V _{CE(SAT)}	I _C =10mA, I _B =1.0mA		0.4	V
V _{BE(SAT)}	I _C =10mA, I _B =1.0mA		1.0	V
hFE	V _{CE} =1.0V, I _C =3.0mA	25	250	
h _{fe}	V_{CE} =6.0V, I_{C} =2.0mA, f=1.0kHz	25	300	
f_{T}	V_{CE} =6.0V, I_{C} =5.0mA, f=100MHz	900	2000	MHz
C_{ob}	V_{CB} =10V, I_E =0, f=1.0MHz		1.0	pF
P_0	V_{CB} =10V, I_E =12mA, f=500MHz	20		mW
G _{pe}	V_{CE} =6.0V, I_{C} =5.0mA, f=200MHz	15		dB
NF	V_{CE} =6.0V, I_{C} =1.5mA, f=200MHz, R_{S} =50 Ω		4.5	dB
r _b 'C _c	V_{CB} =6.0V, I_{C} =2.0mA, f=31.9MHz	3.0	14	ps

2N5179

SILICON NPN RF TRANSISTOR



TO-72 CASE - MECHANICAL OUTLINE



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A (DIA)	0.209	0.230	5.31	5.84			
B (DIA)	0.175	0.195	4.45	4.95			
С	-	0.030	-	0.76			
D	0.170	0.210	4.32	5.33			
Е	0.500	-	12.70	-			
F (DIA)	0.016	0.019	0.41	0.48			
G (DIA)	0.100		2.54				
Н	0.050		1.27				
J	0.036	0.046	0.91	1.17			
K	0.028	0.048	0.71	1.22			

TO-72 (REV: R1)

LEAD CODE:

- 1) Emitter
- 2) Base 3) Collector 4) Case

MARKING:

FULL PART NUMBER

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

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

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

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