

DESCRIPTION

The CENTRAL SEMICONDUCTOR TIP29 Series is a NPN Epitaxial-Base Silicon Power Transistor designed for power amplifier and high-speed switching applications.

MAXIMUM RATINGS ($T_{C}=25^{\circ}C$ unless otherwise noted)

	SYMBOL	T1P29	TIP29A	TIP29B	TIP29C	UNIT
Collector-Base Voltage Emitter-Base Voltage Collector-Emitter Voltage Collector Current, Continuous Collector Current, Peak Base Current Power Dissipation	V _{CBO} VEBO VCEO IC ICM IB PD	40 5.0 40 1.0 3.0 0.4 30	60 5.0 60 1.0 3.0 0.4 30	80 5.0 80 1.0 3.0 0.4 30	100 5.0 100 1.0 3.0 0.4 30	V V V A A A W
Power Dissipation (T _A =25 ^O C) Operating and Storage Junction Temperature	PD TJ, T _{stg}	2.0	2.0 0 +150	2.0 -65 TC	2.0	W OC

ELECTRICAL CHARACTERISTICS ($T_{C}=25^{\circ}C$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
CEO	VCE=30V (TIP29, TIP29A)		0.3	mA
I CEO	V _{CE} =60V (TIP29B, TIP29C)		0.3	mA
ICES	VCE=Rated VCEO		0.2	mA
I EBO	V _{EB} =5.0V		1.0	mA
BVCEO	$I_{C}=30$ mA, (TIP29)	40		V
BVCEO	$I_{C}=30mA$, (TIP29A)	60		V
BVCEO	Ic=30mA, (TIP29B)	80		V
BVCEO	I _C =30mA, (TIP29C)	100		V
VCE(SAT)	IC=1.0A, IB=125mA		0.7	V
VBE(on)	$V_{CF}=4.0V$, $I_{C}=1.0A$		1.3	V
hFE	$V_{CE}=4.0V$, $I_{C}=0.2A$	40		-
hFE	$V_{CE}=4.0V$, IC=1.0A	15	75	-
hfe	$V_{CE}=10V$, $I_{C}=0.2A$, $f=1 \text{ kH}_z$	20		-
fT	$V_{CE}=10V$, $I_{C}=0.2A$, $f=1 MH_z$	3		MHz
ton	IC=1.0A, IB1=1B2=100mA, RL=30 OHMS	0.5 TYP		uS
toff	$I_{C}=1.0A$, $I_{B1}=I_{B2}=100$ mA, $R_{L}=30$ OHMS	2.0 TYP		uS

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 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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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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