

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

BFT28
BFT28A
BFT28B
BFT28C

SILICON PNP HIGH VOLTAGE TRANSISTORS

JEDEC TO-39 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR BFT28 Series types are PNP Silicon High Voltage Transistors mounted in a hermetically sealed metal case designed for amplifier and switching applications where high breakdown voltage is required.

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

	SYMBOL	BFT28	BFT28A	BFT28B	BFT28C	UNIT
Collector-Base Voltage	V_{CB0}	150	200	250	300	V
Collector-Emitter Voltage	V_{CER}	150	200	250	300	V
Collector-Emitter Voltage	V_{CEO}	100	150	200	250	V
Emitter-Base Voltage	V_{EB0}		4.0			V
Collector Current	I_C		1.0			A
Base Current	I_B		0.5			A
Power Dissipation	P_D		5.0			W
Operating and Storage Junction Temperature	T_J, T_{STG}		-65 TO +200			$^\circ\text{C}$
Thermal Resistance	θ_{JC}		35			$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	BFT28		BFT28A		BFT28B		BFT28C		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
I_{CB0}	$V_{CB}=50\text{V}$		1.0		-		-		-	μA
I_{CB0}	$V_{CB}=75\text{V}$		-		1.0		-		-	μA
I_{CB0}	$V_{CB}=150\text{V}$		-		-		5.0		5.0	μA
I_{EB0}	$V_{EB}=4.0$		100		100		100		100	μA
BV_{CEO}	$I_C=10\text{mA}$	100		150		200		250		V
BV_{CER}	$I_C=10\text{mA}, R_{BE}=100\Omega$	150		200		250		300		V
$V_{CE}(\text{SAT})$	$I_C=10\text{mA}, I_B=1.0\text{mA}$		0.6		0.6		5.0		5.0	V
$V_{BE}(\text{SAT})$	$I_C=30\text{mA}, I_B=3.0\text{mA}$		1.5		1.5		1.5		1.5	V
h_{FE}	$V_{CE}=10\text{V}, I_C=10\text{mA}$	20		20		20		20		
h_{fe}	$V_{CE}=10\text{V}, I_C=5.0\text{mA}$	25		25		25		25		
f_T	$V_{CE}=10\text{V}, I_C=30\text{mA}, f=5.0\text{MHz}$	25		25		25		25		MHz
C_{ob}	$V_{CB}=10\text{V}, f=1.0\text{MHz}$		15		15		15		15	pF
C_{ib}	$V_{EB}=5.0\text{V}, I_C=0, f=1.0\text{MHz}$		75		75		75		75	pF
$I_{s/b}$	$V_{CE}=80\text{V}, t_{\text{pulse}}=0.4\text{s}(\text{non-Rep})$	62.5		62.5		62.5		62.5		mA

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 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
- 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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