

DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N/PN3646, 2N5772 Series types are Silicon PNP Transistors designed for ultra high speed switching applications.

MAXIMUM RATINGS $(T_{\Delta}=25^{\circ}C)$

MAXIMUM RATINGS (T _A =25°C)				
	SYMBOL	2N3646	PN3646	UNIT
Collector-Base Voltage	VCBO	40	40	<u>UNIT</u> V
Collector-Emitter Voltage	VCES	40	40	v
Collector-Emitter Voltage	VCEO	15	15	v
Emitter-Base Voltage	VEBO	5.0	5.0	v
Collector Current		200	200	mA
Power Dissipation	PD	200	625	mW
Operating Dissipation	5			
Junction Temperature	Tj, T _{stg}	-65 T	0 +150	°c

ELECTRICAL CHARACTERISTICS (TA=25^oC unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
ICES ICES BVCBO BVCES BVCEO BVEBO VCE (SAT) VCE (SAT) VCE (SAT) VCE (SAT) VBE (SAT) VBE (SAT) VBE (SAT) hEE hFE	VCE=20V VCE=20V, $T_A=65^{\circ}C$ IC=100 μ A IC=10 μ A IC=10 μ A IC=30mA, IB=3.0mA IC=30mA, IB=30mA IC=30mA, IB=30mA IC=30mA, IB=3.0mA, $T_A=65^{\circ}C$ IC=30mA, IB=3.0mA IC=100mA, IB=10mA IC=300mA, IB=30mA VCE=0.4V, IC=30mA VCE=0.5V, IC=100mA	40 40 15 5.0 0.75 30 25	0.5 3.0 0.2 0.28 0.5 0.3 0.95 1.2 1.7 120	μΑ μΑ V V V V V V V V V V V V V
hFE fT Cob Cib ton toff TS	VCE=1.0V, IC=300mA VCE=10V, IC=30mA, f=100MHz VCB=5.0V, IE=0, f=1.0MHz VBE=0.5V, IC=0, f=1.0MHz VCC=10V, IC=300mA, IB1=30mA VCC=10V, IC=300mA, IB1=IB2=30mA VCC=10V, IC=1B1=IB2=10mA	15 350	5.0 8.0 18 28 18	MHz pF ns ns ns

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

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