

SILICON

PN UNIJUNCTION TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N2646 and 2N2647 devices are silicon PN Unijunction Transistors designed for general purpose industrial applications.

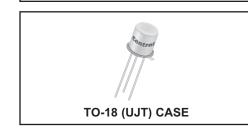


MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Emitter Reverse Voltage	V _{B2E}	30	V
Interbase Voltage	V _{B2B1}	35	V
RMS Emitter Current	le	50	mA
Peak Emitter Current (Duty Cycle ≤1%, PRR≤10pp	os) i _e	2.0	А
RMS Power Dissipation	PD	300	mW
Operating and Storage Junction Temperature	т _Ј , т _{stg}	-65 to +150	°C

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

		2N2	<u>646</u>	<u>2N26</u>	647		
SYMBOL η	VB2B1=10V	MIN 0.56	MAX 0.75	MIN 0.68	MAX 0.82	UNITS	rv
R _{BB}	V _{B2B1} =3.0V	4.7	9.1	4.7	9.1	kΩ	
I _{EB2O}	V _{B2E} =30V	-	12	-	0.2	μΑ	
١ _V	V _{B2B1} =20V, R _{B2} =100Ω	4.0	-	8.0	18	mA	
Ι _Ρ	V _{B2B1} =25V	-	5.0	-	2.0	μΑ	
V _{OB1}	V ₁ =20V	3.0	-	6.0	-	V	

R1 (2-December 2013)

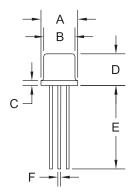


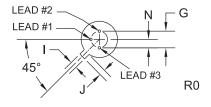


2N2646 2N2647

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TO-18 (UJT) CASE - MECHANICAL OUTLINE





LEAD CODE: 1) Emitter 2) Base 1 3) Base 2

MARKING: FULL PART NUMBER

DIMENSIONS						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.209	0.230	5.31	5.84		
B (DIA)	0.178	0.195	4.52	4.95		
С	-	0.030	-	0.76		
D	0.170	0.210	4.32	5.33		
E	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			
I	0.036	0.046	0.91	1.17		
J	0.028	0.048	0.71	1.22		
TO-18 (UJT) (REV: R0)						

R1 (2-December 2013)

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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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