2N2646 2N2647

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.

MARKING: FULL PART NUMBER



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

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

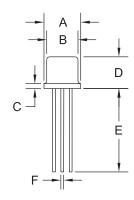
	<u>2N2646</u>		<u>2N2647</u>			
$\begin{array}{c} \text{SYMBOL} \\ \eta \end{array}$	TEST CONDITIONS V _{B2B1} =10V	MIN 0.56	MAX 0.75	MIN 0.68	MAX 0.82	UNITS
R_{BB}	V _{B2B1} =3.0V	4.7	9.1	4.7	9.1	kΩ
I _{EB2O}	V _{B2E} =30V	-	12	-	0.2	μΑ
lV	V_{B2B1} =20V, R_{B2} =100 Ω	4.0	-	8.0	18	mA
lΡ	V _{B2B1} =25V	-	5.0	-	2.0	μΑ
V _{OB1}	V ₁ =20V	3.0	-	6.0	-	V

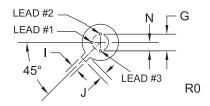
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SILICON PN UNIJUNCTION TRANSISTORS



TO-18 (UJT) CASE - MECHANICAL OUTLINE





LEAD CODE:

- 1) Emitter 2) Base 1
- 3) Base 2

MARKING: FULL PART NUMBER

DIMENSIONS							
	INCHES		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)

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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