

# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

2N2646  
2N2647

SILICON UNIJUNCTION TRANSISTOR

JEDEC TO-18 CASE\*

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 2N2646, 2N2647 types are silicon PN unijunction transistors designed for general purpose industrial applications.

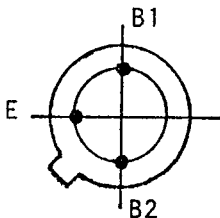
MAXIMUM RATINGS (TA=25°C unless otherwise noted)

	SYMBOL		UNIT
RMS Power Dissipation	PD (RMS)	300	mW
RMS Emitter Current	IE (RMS)	50	mA
Peak Pulse Emitter Current	iE	2.0	A
Interbase Voltage	VB2B1	35	V
Emitter Reverse Voltage	VB2E	30	V
Operating and Storage Junction Temperature	TJ, TSTG	-65 TO +150	°C

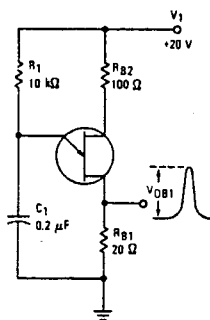
ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	2N2646		2N2647		UNIT
		MIN	MAX	MIN	MAX	
$\eta$	VB2B1=10V†	0.56	0.75	0.68	0.82	-
RBBO	VB2B1=3.0V, IE=0	4.7	9.1	4.7	9.1	k $\Omega$
IB2(MOD)	VB2B1=10V, IE=50mA	15 TYP		15 TYP		mA
$\alpha$ RBBO	VB2B1=3.0V, TA=-65°C to +150°C	0.1	0.9	0.1	0.9	%/°C
VEB1(SAT)	VB2B1=10V, IE=50mA	3.5 TYP		3.5 TYP		V
IEO	VB2E=30V, IB1=0		12		0.2	$\mu$ A
IP	VB2B1=25V		5.0		2.0	$\mu$ A
IV	VB2B1=20V, RB2=100 $\Omega$	4.0	-	8.0	18	mA
VOB1	See test circuit below	3.0		6.0		V

\*Conforms to JEDEC TO-18 outline except for lead configuration.



VOB1 TEST CIRCUIT



† $\eta$  TEST CIRCUIT

