2N834A

SILICON NPN TRANSISTOR



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N834A is a silicon NPN transistor designed for high speed switching applications.





MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V _{CES}	30	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	IC	200	mA
Power Dissipation	P_{D}	300	mW
Operating and Storage Junction Temperature	$T_{J_i} T_{stg}$	-65 to +200	°C

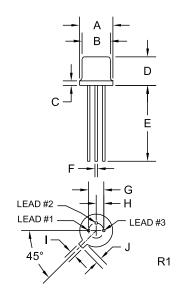
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CHARACTERISTICS: (TA=25°C u	nless otherwise no	oted)	
TEST CONDITIONS	MIN	MAX	UNITS
V _{CB} =20V		500	nA
V _{CB} =20V, T _A =150°C		30	μΑ
V _{CE} =30V		10	μΑ
I _C =10μA	40		V
I _C =1.0mA	30		V
I _E =10μA	5.0		V
I _C =10mA, I _B =1.0mA		0.25	V
I _C =50mA, I _B =5.0mA		0.40	V
I _C =10mA, I _B =1.0mA		0.90	V
V _{CE} =1.0V, I _C =10mA	25		
V_{CE} =20V, I_{C} =10mA, f=100MHz	500		MHz
V_{CB} =10V, I_E =0, f=100kHz		4.0	pF
I _C =10mA, I _{B1} =3.0mA, I _{B2} =1.0mA		33	ns
I _C =10mA, I _{B1} =3.0mA, I _{B2} =1.0mA		75	ns
	CHARACTERISTICS: (T _A =25°C u TEST CONDITIONS V _{CB} =20V V _{CB} =20V, T _A =150°C V _{CE} =30V I _C =10μA I _C =1.0mA I _C =1.0mA I _C =50mA, I _B =5.0mA I _C =10mA, I _B =1.0mA V _{CE} =1.0V, I _C =10mA V _{CE} =1.0V, I _C =10mA V _{CE} =1.0V, I _C =10mA, I _E =1.00MHz V _{CB} =10V, I _E =0, f=100kHz I _C =10mA, I _B 1=3.0mA, I _B 2=1.0mA	CHARACTERISTICS: (T _A =25°C unless otherwise not test conditions	CHARACTERISTICS: (T _A =25°C unless otherwise noted) TEST CONDITIONS V _{CB} =20V V _{CB} =20V, T _A =150°C V _{CE} =30V I _C =10μA I _C =1.0mA I _C =1.0mA I _C =1.0mA I _C =50mA, I _B =1.0mA I _C =50mA, I _B =5.0mA I _C =10mA, I _B =1.0mA V _{CE} =1.0V, I _C =10mA V _{CE} =20V, I _C =10mA, f=100MHz V _{CB} =10V, I _C =10mA, I _B =1.0mA V _{CB} =10V, I _C =10mA, f=100MHz V _{CB} =10V, I _C =0, f=100kHz I _C =10mA, I _B 1=3.0mA, I _B 2=1.0mA 33

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TO-18 CASE - MECHANICAL OUTLINE



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 (REV: R1)

LEAD CODE:

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

MARKING:

FULL PART NUMBER

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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