2N2218 2N2218A

SILICON NPN TRANSISTORS



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR 2N2218 and 2N2218A are silicon NPN transistors manufactured by the epitaxial planar process, and designed for small signal general purpose and switching applications.





MAXIMUM	RATINGS: (T _A =25°C unless otherwise	noted) SYMBOL	2N2218	21	N2218A	UNITS
Collector-Base Voltage		V _{CBO}	60		75	V
Collector-Er	nitter Voltage	V_{CEO}	30		40	V
Emitter-Base Voltage		V_{EBO}	5.0		6.0	V
Continuous Collector Current		$I_{\mathbb{C}}$	800			mA
Power Dissi	pation	P_{D}		800		mW
Power Dissipation (T _C =25°C)		P_{D}	3.0			W
Operating a	nd Storage Junction Temperature	T_J , T_{stg}	-65	to +20	0	°C
ELECTRICAL CHARACTERISTICS: (T _A =25°C)		2N2218 2N2218A		218A		
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS
I _{CBO}	V _{CB} =50V	-	10	-	-	nA
I _{CBO}	V _{CB} =60V	-	-	-	10	nA
ICEV	V_{CE} =60V, V_{EB} =3.0V	-	-	-	10	nA
I _{EBO}	V _{EB} =3.0V	-	10	-	10	nA
D) /	I =40A	00		75		\ /

SYMBOL I _{CBO}	TEST CONDITIONS V _{CB} =50V	MIN -	MAX 10	MIN -	MAX -	UNITS nA
I _{CBO}	V _{CB} =60V	-	-	-	10	nA
ICEV	V_{CE} =60V, V_{EB} =3.0V	-	-	-	10	nA
I _{EBO}	V _{EB} =3.0V	-	10	-	10	nA
BV_{CBO}	I _C =10μA	60	-	75	-	V
BVCEO	I _C =10mA	30	-	40	-	V
BVEBO	I _E =10μA	5.0	-	6.0	-	V
V _{CE(SAT)}	I _C =150mA, I _B =15mA	-	0.4	-	0.3	V
V _{CE} (SAT)	I _C =500mA, I _B =50mA	-	1.6	-	1.0	V
V _{BE(SAT)}	I _C =150mA, I _B =15mA	-	1.3	-	1.2	V
V _{BE(SAT)}	I _C =500mA, I _B =50mA	-	2.6	-	2.0	V
hFE	V_{CE} =10V, I_{C} =100 μ A	20	-	20	-	
h _{FE}	V_{CE} =10V, I_{C} =1.0mA	25	-	25	-	
h _{FE}	V_{CE} =10V, I_{C} =10mA	35	-	35	-	
hFE	V _{CE} =10V, I _C =150mA	40	120	40	120	
h _{FE}	V _{CE} =1.0V, I _C =150mA	20	-	20	-	
h _{FE}	V _{CE} =10V, I _C =500mA	20	-	-	-	
hFE	V _{CE} =10V, I _C =500mA	-	-	25	-	

R1 (31-July 2013)

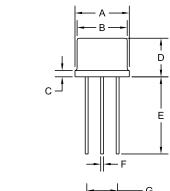
2N2218 2N2218A

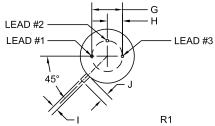




ELECTRICAL CHARACTERISTICS - Continued: (TA=25°		2N2218		2N2218A			
SYMBOL	TEST CONDITIONS	MIN	MAX	MIN	MAX	UNITS	
f_{T}	V_{CE} =20V, I_{C} =20mA	250	-	250	-	MHz	
C _{ob}	V _{CB} =10V, f=100kHz	-	8.0	-	8.0	pF	
ton	V_{CC} =30V, I_C =150mA, I_B =15mA	-	35	-	35	ns	
t _{off}	V _{CC} =30V, I _C =150mA, I _{B1} =I _{B2} =15mA	-	285	-	285	ns	

TO-39 CASE - MECHANICAL OUTLINE





DIMENSIONS						
	INC	HES	MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
A (DIA)	0.335	0.370	8,51	9.40		
B (DIA)	0.315	0.335	8.00	8.51		
С	-	0.040	-	1.02		
D	0.240	0.260	6.10	6.60		
E	0.500	-	12.70	-		
F (DIA)	0.016	0.021	0.41	0.53		
G (DIA)	0.200		5.08			
Н	0.100		2.54			
	0.028	0.034	0.71	0.86		
J	0.029	0.045	0.74	1.14		

TO-39 (REV: R1)

LEAD CODE:

- 1) Emitter 2) Base
- 3) Collector

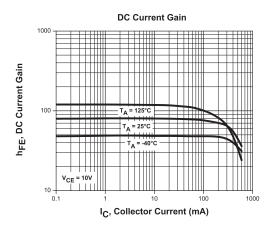
MARKING: FULL PART NUMBER

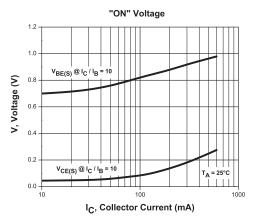
2N2218 2N2218A

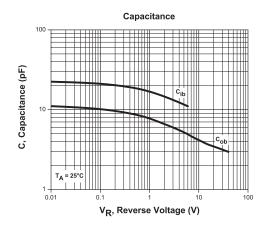
SILICON NPN TRANSISTORS

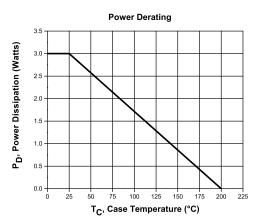


TYPICAL ELECTRICAL CHARACTERISTICS











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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
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Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- · Online technical data and parametric search
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- 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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