

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CMST2907A

SURFACE MOUNT PNP SILICON TRANSISTOR



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMST2907A type is a PNP silicon transistor manufactured by the epitaxial planar process, epoxy molded in a SUPERmini™ surface mount package, designed for small signal, general purpose and switching applications.

MARKING CODE: 2FC



MAXIMUM RATINGS: (T _A =25°C)	SYMBOL		UNITS
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	5.0	V
Continuous Collector Current	I _C	600	mA
Power Dissipation	P_{D}	275	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C
Thermal Resistance	$\Theta_{\sf JA}$	455	°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C	unless otherwise no	oted)	
SYMBOL TEST CONDITIONS	MIN	MAX	UNITS

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
ICBO	V _{CB} =50V		10	nA
ICBO	V _{CB} =50V, T _A =125°C		10	μΑ
I _{CEV}	V_{CE} =30V, V_{EB} =0.5V		50	nA
BV _{CBO}	I _C =10μA	60		V
BVCEO	I _C =10mA	60		V
BV _{EBO}	I _E =10μA	5.0		V
VCE(SAT)	I _C =150mA, I _B =15mA		0.4	V
V _{CE} (SAT)	I _C =500mA, I _B =50mA		1.6	V
V _{BE(SAT)}	I _C =150mA, I _B =15mA		1.3	V
V _{BE} (SAT)	I _C =500mA, I _B =50mA		2.6	V
hFE	V_{CE} =10V, I_{C} =0.1mA	75		
h _{FE}	V_{CE} =10V, I_{C} =1.0mA	100		
hFE	V_{CE} =10V, I_{C} =10mA	100		
hFE	V _{CE} =10V, I _C =150mA	100	300	
h_{FE}	V_{CE} =10V, I_{C} =500mA	50		
f _T	V_{CE} =20V, I_{C} =50mA, f=100MHz	200		MHz

R4 (9-February 2010)

CMST2907A

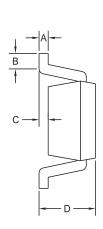


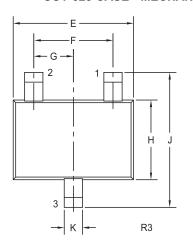


ELECTRICAL CHARACTERISTICS - Continued: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MAX	UNITS
C_{ob}	V_{CB} =10V, I_E =0, f=1.0MHz	8.0	pF
C_{ib}	V _{EB} =2.0V, I _C =0, f=1.0MHz	30	pF
ton	V_{CC} =30V, V_{BE} =0.5, I_{C} =150mA, I_{B1} =15mA	45	ns
t_d	V_{CC} =30V, V_{BE} =0.5, I_{C} =150mA, I_{B1} =15mA	10	ns
t _r	V_{CC} =30V, V_{BE} =0.5, I_{C} =150mA, I_{B1} =15mA	40	ns
toff	V_{CC} =6.0V, I_{C} =150mA, I_{B1} = I_{B2} =15mA	100	ns
t_S	V_{CC} =6.0V, I_{C} =150mA, I_{B1} = I_{B2} =15mA	80	ns
t _f	V_{CC} =6.0V, I_{C} =150mA, I_{B1} = I_{B2} =15mA	30	ns

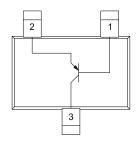
SOT-323 CASE - MECHANICAL OUTLINE





DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.002	0.008	0.05	0.20	
В	0.004	-	0.10	-	
С	-	0.004	-	0.10	
D	0.031	0.043	0.80	1.10	
Е	0.071	0.087	1.80	2.20	
F	0.051		1.30		
G	0.026		0.65		
Н	0.045	0.053	1.15	1.35	
J	0.079	0.087	2.00	2.20	
K	0.008	0.016	0.20	0.40	

SOT-323 (REV: R3)



LEAD CODE:

- 1) Base 2) Emitter
- 3) Collector

MARKING CODE: 2FC

R4 (9-February 2010)

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).
- 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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