CMKT3920

SURFACE MOUNT SILICON DUAL, SMALL SIGNAL NPN SWITCHING TRANSISTOR

ULTRAmini™



SOT-363 CASE

Central Semiconductor Corp.

www.centralsemi.com

DESCRIPTION:

The Central Semiconductor CMKT3920 (two single NPN transistors) is a dual combination in a space saving SOT-363 ULTRAmini™ package, designed for small signal general purpose amplifier and switching applications.

MARKING CODE: K20

FEATURES:

- ULTRAmini™ space saving package containing two 3920 NPN transistors

APPLICATIONS:

- Load switching
- Small signal amplification
- Lamp and relay drivers
- MOSFET gate drive

MAXIMUM RATINGS: (T_A=25°C)	**SYMBOL**		**UNITS**
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	7.0	V
Continuous Collector Current	I_C	200	mA
Power Dissipation	P_D	350	mW
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	°C
Thermal Resistance	Θ_{JA}	357	°C/W

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

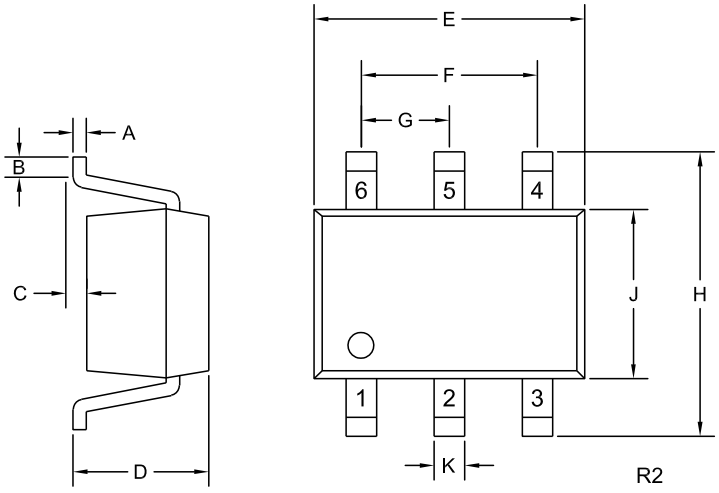
SYMBOL	**TEST CONDITIONS**	**MIN**	**MAX**	**UNITS**
I_{CBO}	V_{CB}=60V		100	nA
I_{EBO}	V_{EB}=7.0V		100	nA
BV_{CBO}	I_C=50μA	60		V
BV_{CEO}	I_C=1.0mA	50		V
BV_{EBO}	I_E=50μA	7.0		V
$V_{CE(SAT)}$	I_C=50mA, I_B=5.0mA		0.4	V
$V_{BE(SAT)}$	I_C=50mA, I_B=5.0mA		0.95	V
h_{FE}	V_{CE}=6.0V, I_C=1.0mA	120	560	
f_T	V_{CE}=20V, I_C=10mA, f=100MHz	300		MHz
C_{ob}	V_{CB}=12V, I_E=0, f=1.0MHz		3.5	pF

R1 (5-January 2012)

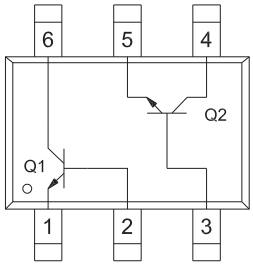
CMKT3920

SURFACE MOUNT SILICON
DUAL, SMALL SIGNAL
NPN SWITCHING TRANSISTOR

SOT-363 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



LEAD CODE:
1) Emitter Q1
2) Base Q1
3) Base Q2
4) Collector Q2
5) Emitter Q2
6) Collector Q1

MARKING CODE: K20

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.004	0.010	0.10	0.25
B	0.005	-	0.12	-
C	0.000	0.004	0.00	0.10
D	0.031	0.043	0.80	1.10
E	0.071	0.087	1.80	2.20
F	0.051		1.30	
G	0.026		0.65	
H	0.075	0.091	1.90	2.30
J	0.043	0.055	1.10	1.40
K	0.006	0.012	0.15	0.30

SOT-363 (REV: R2)

R1 (5-January 2012)

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 quick 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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