

## FEMTOmini™ Transistors in the SOT-953 package

FEMTOmini™

**CMNT3904E**  
(60V, 200mA, NPN)

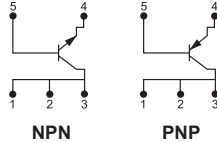


SOT-953

Enlarged

**CMNT3906E**  
(60V, 200mA, PNP)

Actual Size



Sample Devices  
available  
upon request.

### features

- Enhanced Specification including an improved  $V_{CE(SAT)}$  of 0.2V @ 50mA
- Space Saving SOT-953 package (1.05 x 1.05mm Max)
- Low Profile (0.5mm Max)

### applications

- DC/DC Converters
- Voltage Clamping
- Protection Circuits
- Battery powered products including Cell Phones, Digital Cameras, Pagers, PDAs, Laptop Computers, etc.

### description

The **CMNT3904E** and **CMNT3906E** are NPN and PNP Low  $V_{CE(SAT)}$  transistors designed for applications where energy efficiency, ultra small size, and reasonable power dissipation are the prime requirements. Packaged in the **FEMTOmini™** SOT-953 package, these devices provide performance characteristics suitable for the most demanding size constrained applications.

### selection guide



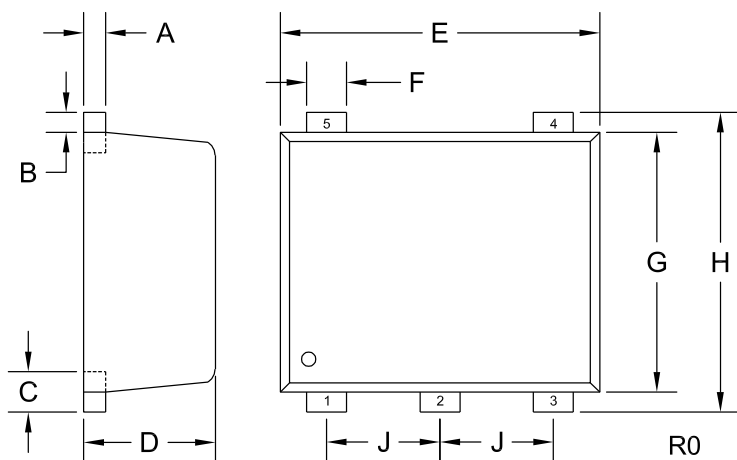
#### Transistors

	Central Part No.	$BV_{CBO}$	$BV_{CEO}$	$BV_{EBO}$	$I_{CEV}$ (nA)	@ $V_{CE}$ (V)	$h_{FE}$		@ $V_{CE}$ (V)	@ $I_C$ (mA)	$V_{CE(SAT)}$ (V)	@ $I_C$ (mA)	$C_{ob}$ (pF)	$f_T$ (MHz)	NF (dB)
		(V) MIN	(V) MIN	(V) MIN			MIN	MAX							
NPN	CMNT3904E	60	40	6.0	50	30	100	300	1.0	10	0.1 0.2	10 50	4.0	300	4.0
PNP	CMNT3906E	60	40	6.0	50	30	100	300	1.0	10	0.1 0.2	10 50	4.0	300	4.0

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## Mechanical Specifications - SOT-953



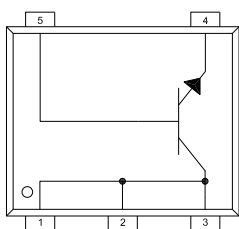
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.002	0.006	0.050	0.150
B	0.002	0.006	0.050	0.150
C	0.005	0.007	0.125	0.175
D	0.016	0.020	0.400	0.500
E	0.037	0.041	0.950	1.050
F	0.004	0.008	0.100	0.200
G	0.030	0.033	0.750	0.850
H	0.037	0.041	0.950	1.050
J	0.014		0.350	

SOT-953 (REV: R0)

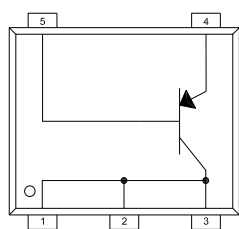
### MARKING CODE:

CMNT3904E: CL

CMNT3906E: CM



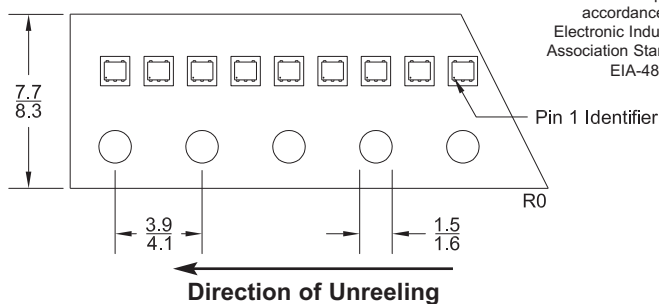
CMNT3904E  
NPN



CMNT3906E  
PNP

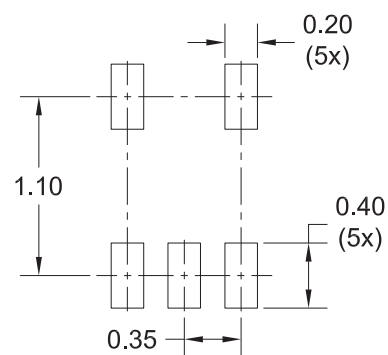
### Tape Dimensions and Orientation (Dimensions in mm)

Tape Width: 8mm



\* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-1-A

### Mounting Pad Geometry (Dimensions in mm)



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