

CMLT6427E Darlington Transistor



PICOmini™



SOT-563



features

- Utilizes 62% less board space than an industry standard SOT-23
- Enhanced Specifications for I_{CEO} , BV_{CBO} , BV_{CES} , BV_{EBO} , $V_{CE(SAT)}$, and h_{FE}
- High h_{FE} 25,000 to 200,000



Sample Devices available upon request.

description

The Central™ Semiconductor CMLT6427E is a PICOmini™ NPN Darlington transistor manufactured in the SOT-563 surface mount package. This new device is the World's Smallest Darlington transistor and utilizes 62% less board space than an industry standard SOT-23. The CMLT6427E offers enhanced specifications for I_{CEO} , BV_{CBO} , BV_{CES} , BV_{EBO} , $V_{CE(SAT)}$, and h_{FE} . This new device is ideal for circuits requiring an efficient small signal amplifier with a low saturation voltage and high h_{FE} .

selection guide

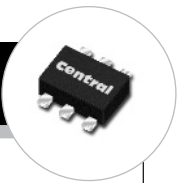


TYPE NO.	BV_{CBO}	BV_{CEO} * BV_{CES}	BV_{EBO}	I_{CBO} @ I_{CEV}	V_{CB} @ V_{CE}	h_{FE}		$@ V_{CE}$	$@ I_C$	$V_{CE(SAT)}$ @ I_C		C_{ob}	f_T	NF	t_{off}	Case Type
	(V) MIN	(V) MIN	(V) MIN	(nA) MAX	(V) MAX	MIN	MAX	(V)	(mA)	(V) MAX	(mA)	(pF) MAX	(MHz) TYP.	(dB) MAX	(ns) MAX	
CMLT6427E	60	60*	12	100	30	25,000	200,000	5.0	100	1.0	500	7.0	200	10	-	SOT-563

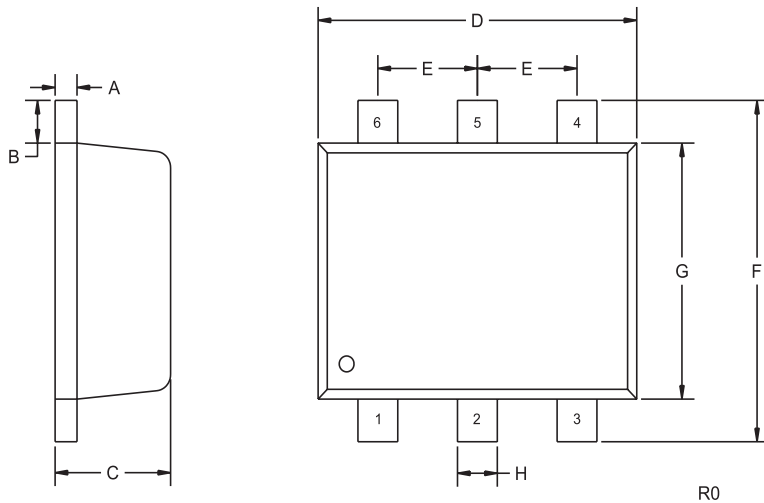
Please visit Central's online interactive Selection Guide for the full range of devices manufactured by Central:
www.centralemi.com/selection

The screenshot shows a web interface for 'Small Signal Transistors Darlington'. It includes a search bar, navigation links (Products, Samples, What's New, Trade Shows, Corporate Info, Contact Us, Literature, In the Press), and a table of device specifications. The table lists various transistor types like CMT200K, CMT200K, CMT7A14B, CMT7A14B, CMT7A14B, and CMLT6427E with their respective parameters.

CMLT6427E Darlington Transistor



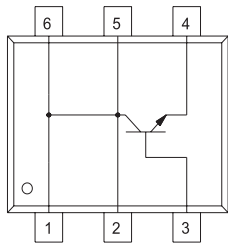
Mechanical Specifications - SOT-563



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.004	0.007	0.10	0.18
B	0.008		0.20	
C	0.022	0.024	0.56	0.60
D	0.059	0.067	1.50	1.70
E	0.020		0.50	
F	0.061	0.067	1.55	1.70
G	0.047		1.20	
H	0.006	0.012	0.15	0.30

SOT-563 (REV: R0)

Lead Code

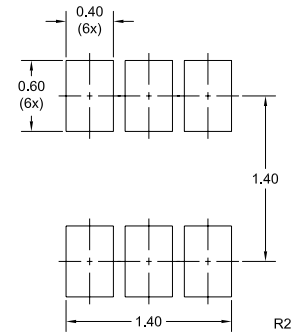


LEAD CODE:
 1) COLLECTOR
 2) COLLECTOR
 3) BASE
 4) EMITTER
 5) COLLECTOR
 6) COLLECTOR

MARKING CODE: C64

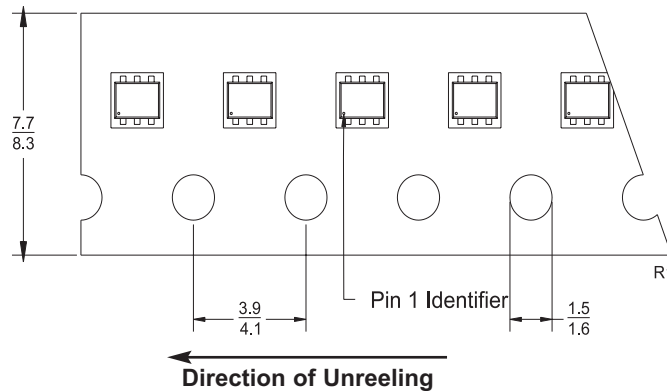
Mounting Pad Geometry

(Dimensions in mm)



Tape and Reel Specs (Dimensions in mm)

Tape Width: 8mm



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

CentralTM
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Innovations in Discrete Semiconductors

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PA CMLT6427E