

CMLT5078E NPN/PNP
CMLT5087E PNP/PNP
CMLT5088E NPN/PNP

**ENHANCED SPECIFICATION
SURFACE MOUNT SILICON
DUAL TRANSISTORS**



SOT-563 CASE



www.centra-semi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLT5078E, CMLT5087E, and CMLT5088E are surface mount silicon transistors with enhanced specifications designed for applications requiring high gain and low noise.

MARKING CODES: CMLT5078E: L78

CMLT5087E: L87

CMLT5088E: L88 or 88

MAXIMUM RATINGS: (T _A =25°C)		SYMBOL		UNITS
♦ Collector-Base Voltage		V _{CBO}	50	V
♦ Collector-Emitter Voltage		V _{CEO}	50	V
♦ Emitter-Base Voltage		V _{EBO}	5.0	V
Continuous Collector Current		I _C	100	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	TYP		MAX	UNITS
			NPN	PNP		
I _{CBO}	V _{CB} =20V				50	nA
I _{EBO}	V _{EB} =3.0V				50	nA
♦ BV _{CBO}	I _C =100μA	50	135	150		V
♦ BV _{CEO}	I _C =1.0mA	50	65	105		V
♦ BV _{EBO}	I _E =100μA	5.0	8.7	7.5		V
♦ V _{CE(SAT)}	I _C =10mA, I _B =1.0mA		45	50	100	mV
♦♦ V _{CE(SAT)}	I _C =100mA, I _B =10mA		110	225	400	mV
V _{BE(SAT)}	I _C =10mA, I _B =1.0mA		700	700	800	mV
♦ h _{FE}	V _{CE} =5.0V, I _C =0.1mA	300	430	390	900	
h _{FE}	V _{CE} =5.0V, I _C =1.0mA	300	435	380		
♦ h _{FE}	V _{CE} =5.0V, I _C =10mA	300	430	350		
♦♦ h _{FE}	V _{CE} =5.0V, I _C =100mA	50	125	75		
♦ f _T	V _{CE} =5.0V, I _C =500μA, f=20MHz	100				MHz
C _{ob}	V _{CB} =5.0V, I _E =0, f=1.0MHz				4.0	pF
C _{ib}	V _{BE} =0.5V, I _C =0, f=1.0MHz				15	pF
h _{fe}	V _{CE} =5.0V, I _C =1.0mA, f=1.0kHz	350			1400	
NF	V _{CE} =5.0V, I _C =100μA, R _S =10kΩ, f=10Hz to 15.7kHz				3.0	dB

♦ Enhanced specification

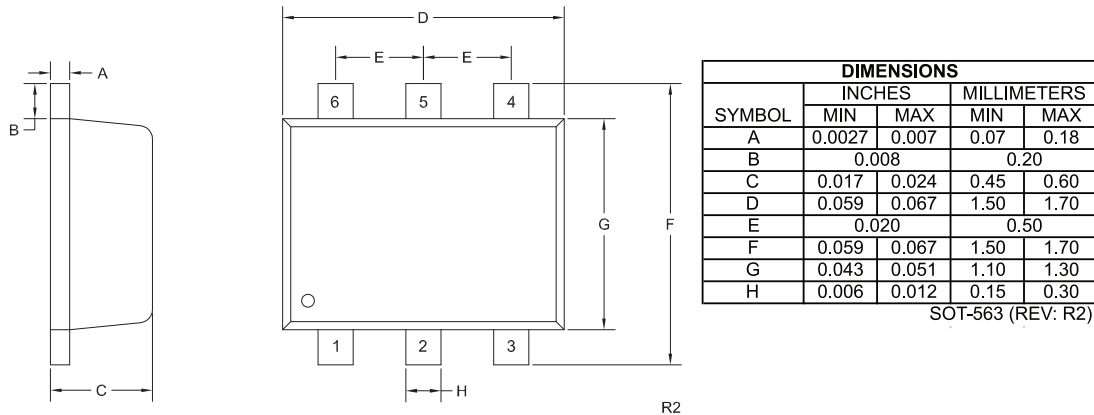
♦♦ Additional Enhanced specification

R6 (29-June 2015)

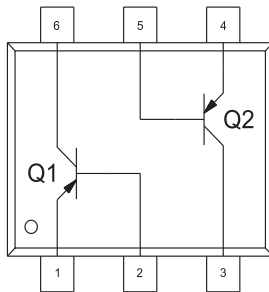
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SOT-563 CASE - MECHANICAL OUTLINE

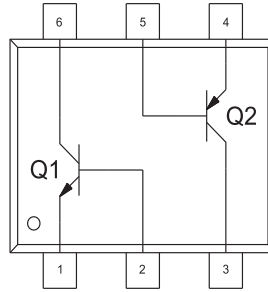


PIN CONFIGURATIONS



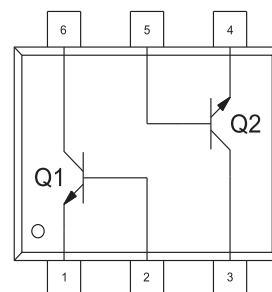
CMLT5087E

MARKING CODE: L87



CMLT5078E

MARKING CODE: L78



CMLT5088E

MARKING CODE: L88 or 88

LEAD CODE:

- 1) Emitter Q1
- 2) Base Q1
- 3) Collector Q2
- 4) Emitter Q2
- 5) Base Q2
- 6) Collector Q1

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SERVICES

- Bonded Inventory
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- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)
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