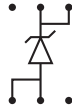


CMKTC825A  
CMKTC825E

**SURFACE MOUNT  
TEMPERATURE COMPENSATED  
SILICON ZENER DIODE**

ULTRAm<sup>ini</sup>



**SOT-363 CASE**

**Central**  
Semiconductor Corp.

[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMKTC825A and CMKTC825E are 6.2 volt, temperature compensated Zener reference diodes. These devices are ideal for applications requiring long term voltage stability over the specified temperature range.

**CMKTC825A MARKING CODE: CT25**

**CMKTC825E MARKING CODE: C25E**

**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$ )

Power Dissipation

Operating and Storage Junction Temperature

Tolerance

**SYMBOL**

$P_D$

$T_J, T_{stg}$

325

-65 to +150

$\pm 5$

**UNITS**

mW

$^\circ\text{C}$

%

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	NOM	MAX	UNITS
$V_Z$	$I_Z=7.5\text{mA}$	5.89	6.20	6.51	V
$Z_Z$	$I_Z=7.5\text{mA}$			20	$\Omega$
$\Delta V_Z^*$	$I_Z=7.5\text{mA}$ (CMKTC825A)			44	mV
$\Delta V_Z^*$	$I_Z=7.5\text{mA}$ (CMKTC825E)			20	mV

\* The maximum allowable voltage change observed at the specified temperatures of  $-55^\circ\text{C}$ ,  $0^\circ\text{C}$ ,  $25^\circ\text{C}$ ,  $75^\circ\text{C}$ , and  $100^\circ\text{C}$

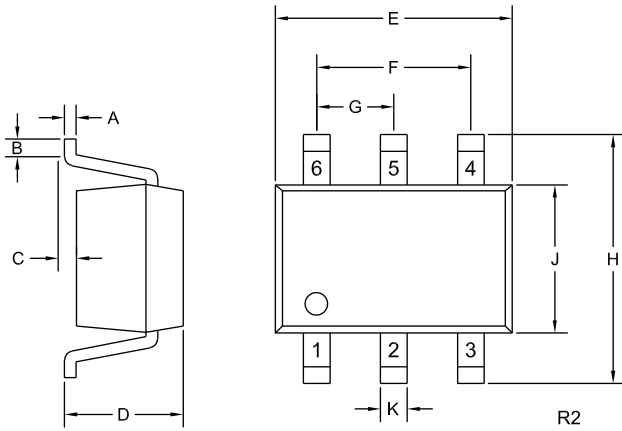
R5 (13-January 2010)

CMKTC825A  
CMKTC825E

SURFACE MOUNT  
TEMPERATURE COMPENSATED  
SILICON ZENER DIODE



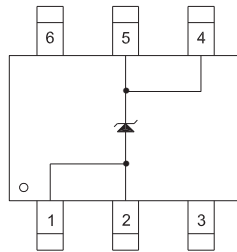
SOT-363 CASE - MECHANICAL OUTLINE



SYMBOL	INCHES		MILLIMETERS	
	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)

PIN CONFIGURATION



LEAD CODE:

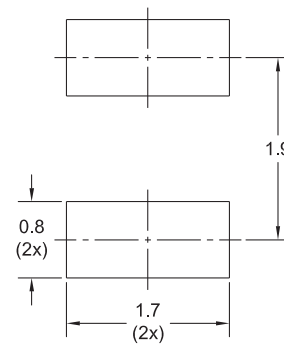
- 1) Anode
- 2) Anode
- 3) NC
- 4) Cathode
- 5) Cathode
- 6) NC

MARKING CODES:

CMKTC825A: CT25  
CMKTC825E: C25E

SUGGESTED MOUNTING PADS

(Dimensions in mm)



R5 (13-January 2010)