

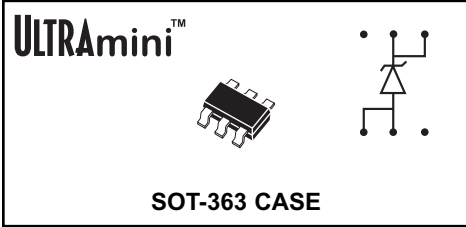
**CMKTC825A**  
**SURFACE MOUNT**  
**ULTRAmi™**  
**TEMPERATURE COMPENSATED**  
**SILICON ZENER DIODE**

Central™

Semiconductor Corp.

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMKTC825A type is a 6.2 volt temperature compensated Zener reference diode. This device is ideal for applications requiring long term voltage stability over the specified temperature range.



**MARKING CODE: CT25**

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

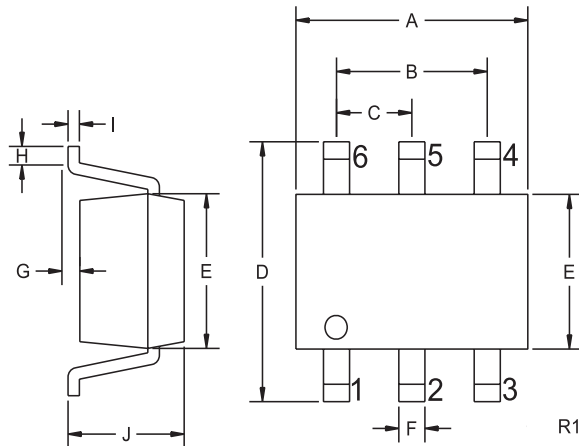
	SYMBOL		UNITS
Power Dissipation Operating and Storage	$P_D$	325	mW
Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$
Tolerance		$\pm 5$	%

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

SYMBOL	TEST CONDITIONS	MIN	NOMINAL	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	$\Omega$
$^*\Delta V_Z$				0.28	mV/ $^\circ\text{C}$

\* The Maximum allowable change observed over the temperature range of  $-55^\circ\text{C}$  to  $+100^\circ\text{C}$

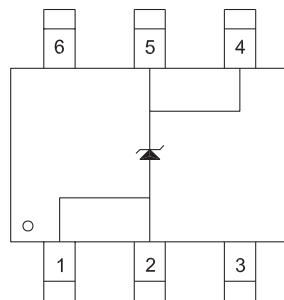
**SOT-363 CASE - MECHANICAL OUTLINE**



SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.073	0.085	1.85	2.15
B	0.051		1.30	
C	0.026		0.65	
D	0.075	0.091	1.90	2.30
E	0.043	0.055	1.10	1.40
F	0.006	0.012	0.15	0.30
G	0.000	0.004	0.00	0.10
H	0.010	-	0.25	-
I	0.004	0.010	0.10	0.25
J	0.031	0.039	0.80	1.00

SOT-363 (REV: R1)

**Pinout**



**LEAD CODE:**

- 1) ANODE
- 2) ANODE
- 3) N. C.
- 4) CATHODE
- 5) CATHODE
- 6) N. C.

**MARKING CODE: CT25**

**Suggested Mounting Pad Geometry**  
Dimensions in mm

