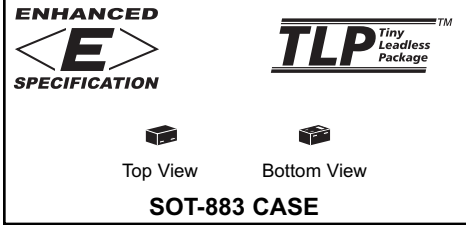




CED2838E

**ENHANCED SPECIFICATION
SURFACE MOUNT
DUAL, COMMON CATHODE
SILICON SWITCHING DIODES**



Central™

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CED2838E type are dual common cathode silicon switching diodes manufactured by the epitaxial planar process and packaged in an epoxy molded TLP™ surface mount case. This device is ideal for high speed switching applications requiring extremely demanding size constraints.

FEATURES:

- Power Dissipation 100mW
- Low Package Profile, 0.5mm
- Very low leakage current
- Small, TLP™ 1x0.6mm, SOT-883 Leadless Surface Mount Package

MARKING CODES: K

APPLICATIONS:

- High speed switching

MAXIMUM RATINGS: (T_A=25°C)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Average Forward Current	I _O	200	mA
Peak Forward Current	I _{FM}	300	mA
Power Dissipation	P _D	100	mW (Note 1)
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150	°C

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
◆ I _R	V _R =70V		20	100	nA
◆ BV _R	I _R =100µA	100			V
◆ V _F	I _F =10mA		0.7	0.9	V
◆ V _F	I _F =50mA		0.8	1.0	V
◆ V _F	I _F =100mA		0.9	1.1	V
◆ C _T	V _R =0, f=1 MHz		0.6	2.0	pF
t _{rr}	I _R =I _F =10mA, R _L =100Ω, Rec. to 1.0mA		3.0	4.0	ns

- ◆ Enhanced specification

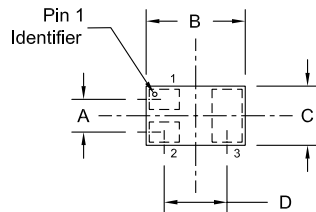
Notes: (1) FR-4 epoxy PC board with a mounting pad area of 10mm x 10mm

R0 (13-December 2006)

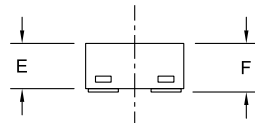
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PRELIMINARY

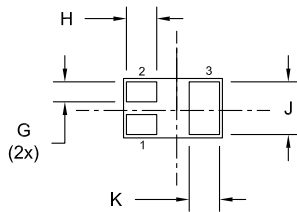
SOT-883 - MECHANICAL OUTLINE



TOP VIEW



SIDE VIEW



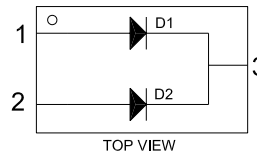
BOTTOM VIEW R0

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.014		0.35	
B	0.037	0.041	0.95	1.05
C	0.022	0.026	0.55	0.65
D	0.026		0.65	
E	0.016	0.024	0.40	0.60
F	0.018	0.024	0.45	0.60
G	0.004	0.008	0.10	0.20
H	0.008	0.012	0.20	0.30
J	0.018	0.022	0.45	0.55
K	0.008	0.012	0.20	0.30

SOT883 (REV:R0)

LEAD CODE:

- 1) ANODE D1
- 2) ANODE D2
- 3) CATHODE D1, D2



TOP VIEW