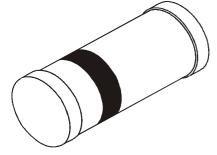


# HIGH SPEED SILICON SWITCHING DIODES



CLL4148 CLL4448

SOD - 80C Mini MELF (LL- 34 )

Polarity: Cathode is indicated by a black band

# Hermetically Sealed, Glass Silicon Diodes

#### **ABSOLUTE MAXIMUM RATINGS**

DESCRIPTION	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	V
Reverse Voltage (Continuous)	V <sub>R</sub>	75	V
Average Rectified Forward Current	I <sub>F</sub> (av)	150	mA
Forward Current (DC)	I <sub>F</sub>	200	mA
Repetitive Peak Forward Current	I <sub>FRM</sub>	450	mA
Non Repetitive Peak Surge Current t=1 ms	I <sub>FSM</sub>	2000	mA
t=1 s	I <sub>FSM</sub>	500	mA
Power Dissipation up to Tamb=25 °C	P <sub>tot</sub>	500	mW
Derating factor		2.85	mW/K
Operating & Storage Junction Temperature	T <sub>j</sub> , T <sub>stg</sub>	- 65 to +200	°C
Range			

## ELECTRICAL CHARACTERISTICS (Ta=25 °C Unless Otherwise Specified)

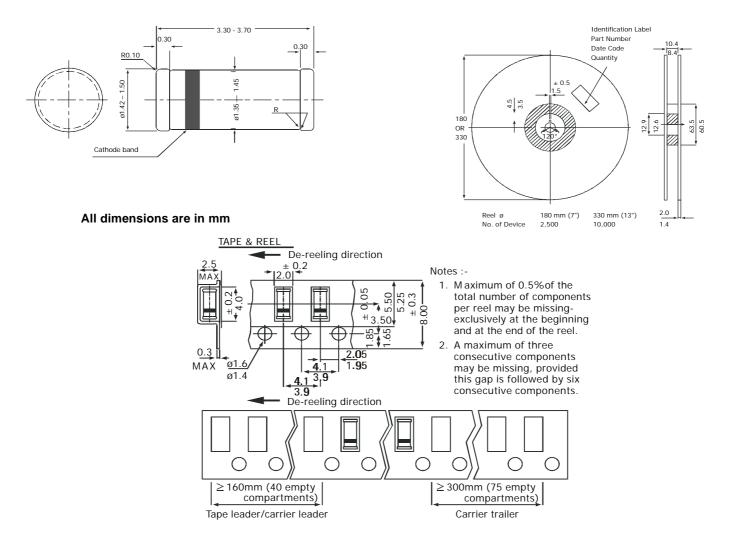
DESCRIPTION	PTION SYMBOL TEST CONDITION			MIN	MAX	UNIT
			••••			
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	CLL4148		1.0	V
		I <sub>F</sub> =5mA	CLL4448	0.62	0.72	
		I <sub>F</sub> =10mA I <sub>F</sub> =5mA I <sub>F</sub> =100mA	CLL4448		1.0	
Reverse Current	I <sub>R</sub>	V <sub>R</sub> =20V V <sub>R</sub> =75V			25	nA
		V <sub>R</sub> =75V			5.0	μA
		V <sub>R</sub> =20V, T <sub>i</sub> =100° C,	CLL4448		3.0	μA
		V <sub>R</sub> =20V, T <sub>j</sub> =100° C, V <sub>R</sub> =20V, T <sub>j</sub> =150° C			50	μA
Reverse Breakdown Voltage	$V_{BR}$	I <sub>R</sub> =100μΑ		100		V

### **DYNAMIC CHARACTERISTICS**

Diode Capacitance	C <sub>d</sub>	V <sub>R</sub> =0V, f=1MHz		4.0	pF
Forward Recovery Voltage	V <sub>fr</sub>	I <sub>F</sub> =50mA, t <sub>r</sub> =20ns		2.5	V
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =10mA, to I <sub>R</sub> =60mA		4.0	ns
		R <sub>L</sub> =100 Ω			
		Measured @ I <sub>R</sub> =1mA	•		

# SOD - 80C Mini MELF (LL- 34)

# SOD 80C (LL-34) Mini MELF Hermetically Sealed Glass Package



## **Packing Detail**

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
SOD-80C T&R	2.5K/reel 10K/reel	100 gm/3K pcs 400 gm/10K pcs	3" x 7.5" x 7.5" 13" x 13" x 0.5"	10.0K 10.0K	17" x 15" x 13.5" 17" x 15" x 13.5"	160.0K 300.0K	10 kgs 15 kgs

## CLL4148 CLL4448

SOD - 80C Mini MELF (LL- 34)

## Disclaimer

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Data Sheet