

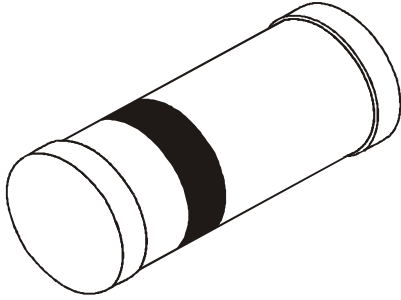
HIGH SPEED SILICON SWITCHING DIODES

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_{RRM}	100	V
Reverse Voltage (Continuous)	V_R	75	V
Average Rectified Forward Current	I_F (av)	150	mA
Forward Current (DC)	I_F	200	mA
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non Repetitive Peak Surge Current $t=1\text{ ms}$ $t=1\text{ s}$	I_{FSM}	2000	mA
	I_{FSM}	500	mA
Power Dissipation up to $T_{amb}=25^\circ\text{C}$	P_{tot}	500	mW
Derating factor		2.85	mW/K
Operating & Storage Junction Temperature Range	T_j, T_{stg}	- 65 to +200	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ Unless Otherwise Specified)

DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Forward Voltage	V_F	$I_F=10\text{mA}$ CLL4148 $I_F=5\text{mA}$ CLL4448 $I_F=100\text{mA}$ CLL4448	0.62	1.0 0.72 1.0	V
Reverse Current	I_R	$V_R=20\text{V}$ $V_R=75\text{V}$ $V_R=20\text{V}, T_j=100^\circ\text{C}$, CLL4448 $V_R=20\text{V}, T_j=150^\circ\text{C}$		25 5.0 3.0 50	nA μA μA μA
Reverse Breakdown Voltage	V_{BR}	$I_R=100\mu\text{A}$	100		V

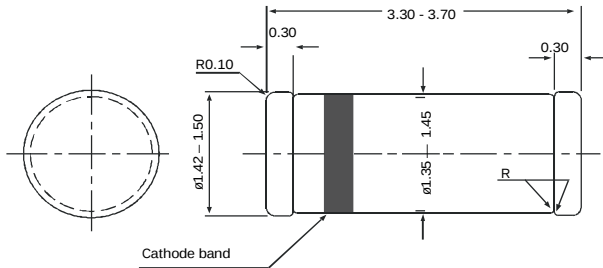
DYNAMIC CHARACTERISTICS

Diode Capacitance	C_d	$V_R=0\text{V}, f=1\text{MHz}$		4.0	pF
Forward Recovery Voltage	V_{fr}	$I_F=50\text{mA}, t_f=20\text{ns}$		2.5	V
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}, \text{to } I_R=60\text{mA}$ $R_L=100\Omega$ Measured @ $I_R=1\text{mA}$		4.0	ns

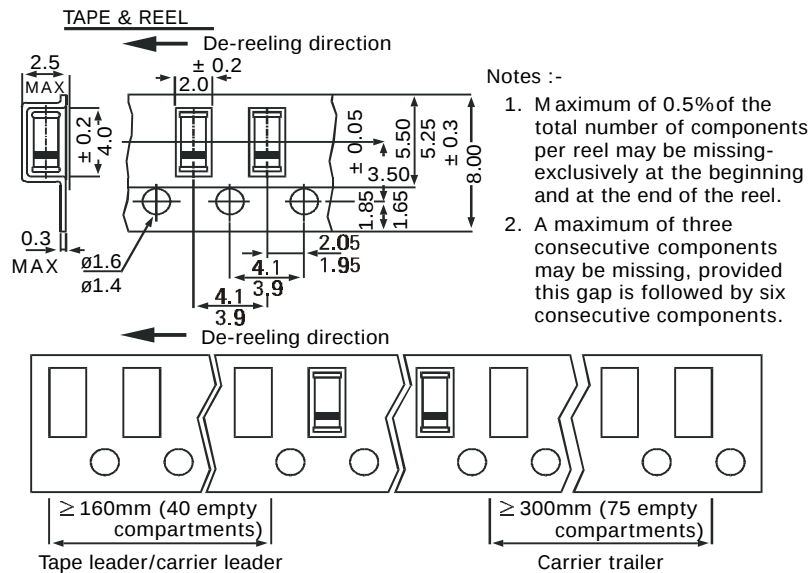
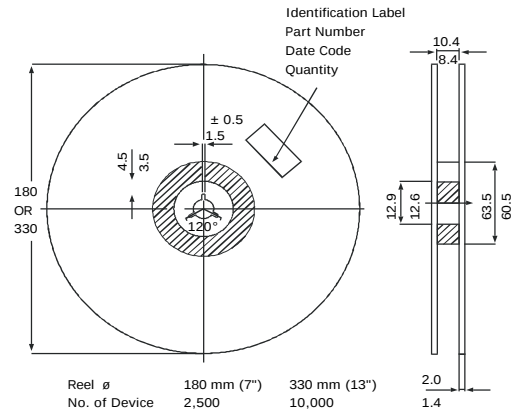
CLL4148
CLL4448

SOD - 80C
Mini MELF (LL- 34)

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



All dimensions are in mm



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	100 gm/3K pcs	3" x 7.5" x 7.5"	10.0K	17" x 15" x 13.5"	160.0K	10 kgs
	10K/reel	400 gm/10K pcs	13" x 13" x 0.5"	10.0K	17" x 15" x 13.5"	300.0K	15 kgs

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