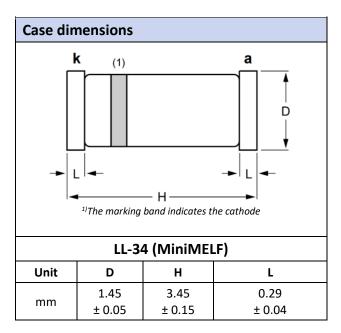


Fast Switching SMD Diodes

Primary characteristics					
Parameter	Value	Unit			
Vz range nom.	0.75 to 75	V			
Power rating	500	mW			

Features

- Common cylindrical glass MiniMELF (SOD-80C, DO-213AA, LL-34) case for easy automatic insertion.
- Pb-Free and RoHS Compliant
- Fast Switching Speed
- General Purpose Rectification
- Silicon Epitaxial Planar Construction
- Weight: 0.12 grams (approx.)

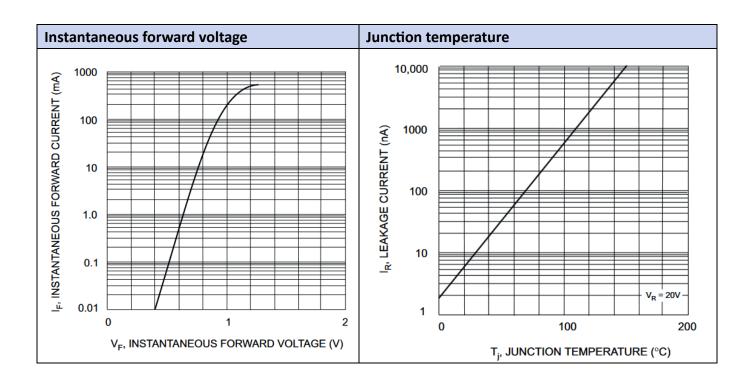


Absolute maximum ratings and electrical characteristics (T _a = 25°C)							
Parameter		Symbol Test condition	Took oo adiki oo		Value		
			Min.	Тур.	Max.	Unit	
Non-repetitive peak reverse voltage		V_{RM}	-	-	-	100	V
Peak repetitive reverse v Working peak reverse vo DC blocking voltage	-	V _{RRM} V _{RWM} V _R	-	-	-	75	V
RMS reverse voltage		V _{R(RMS)}	-	-	53	-	V
Forward continuous current 1)	L4148	I _{FM}	-	-	300	-	mA
	L4448		-	-	500	-	mA
Average rectified output current 1)		l ₀	-	-	150	-	mA
Non-repetitive peak forward surge current	@t=1.0s	- I _{FSM}	-	-	-	1.0	Α
	@t=1.0μs		-	-	-	2.0	
Power dissipation		- P _d -	-	-	-	500	mW
Power derating above 25°C			-	-	1.68	-	mW/°C

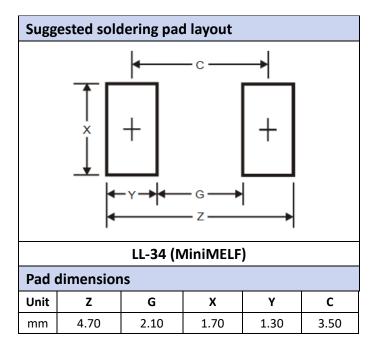
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Parameter Thermal resistance, junction to ambient air 1)		Symbol Test	To ak an in distant	Value			11!4
			Test condition	Min.	Тур.	Max.	Unit
			-	-	300	-	K/W
Operating and storage to range	emperature	T _j , T _{STG}	-	-65	-	175	°C
Maximum forward voltage	LL4148		I _F =10mA	-	-	1.0	V
	LL4448	V _{FM}	I _F =5.0mA	0.62	-	0.72	
	LL4448		I _F =100mA	-	-	1.0	
Maximum peak reverse current		Irm	V _R =75V	-	-	5.0	μΑ
			V _R =70V, T _j =150°C	-	-	50	μΑ
			V _R =20V, T _j =150°C	-	-	30	μΑ
			V _R =20V	-	-	25	nA
Capacitance		Cj	V _R =0, f=1.0MHz	-	-	4.0	pF
Reverse Recovery Time		t _{rr}	I_F =10mA to I_R =1.0mA V_R =6.0V, R_L =100 Ω	-	-	4.0	ns







Ordering information						
Part Number	Part Number Package		Dimensions			
LL4148, LL4448	MiniMELF	2500 pcs / reel				
	(SOD-80C, DO-213AA, LL-34)					

Disclaimer

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