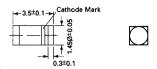
LS4148

Silicon Expitaxial Planar Diode

fast switching diode in MiniMELF case especially suited for automatic surface mounting. Identical electrically to standard JEDEC 1N4148

These diodes are delivered taped. Details see "Taping".



Glass case MiniMELF

Weight approx. 0.05g Dimensions in mm

Absolute Maximum Ratings ($T_a = 25 \text{ °C}$)

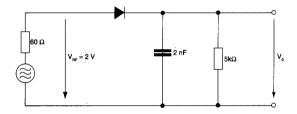
	Symbol	Value	Unit	
Reverse Voltage	V _R	75	V	
Peak Reverse Voltage	V _{BM}	100	V	
Rectified Current (Average) Half Wave Rectification with Resist. Load at T _{amb} = 25 °C and f ≥ 50 Hz	l _o	150 1)	mA	
Surge Forward Current at t < 1 s and T _j = 25 °C	I _{FSM}	500	mA	
Power Dissipation at T _{amb} = 25 °C	P _{tot}	500 ¹⁾	mW	
Junction Temperature	T,	175	°C	
Storage Temperature Range	T _s	-65 to + 175	∘C	



Characteristics at T_j = 25 °C

Symbol	Min.	Тур.	Max.	Unit
V _F	•	-	1	V
I _R I _R	- - -	- - - -	25 5 50	nA μA μA
V _{(BR)R}	100	-	-	V
C _{tot}	-	-	4	pF
V _{fr}	-	-	2.5	V
t _{rr}	-	-	4	ns
R _{thA}	-	-	0.351)	K/mW
ην	0.45	-	-	-
	V _F I _R I _R I _R V _{(BR)R} V _{tot} V _{fr}	V _F	V _F	V _F - - 1 I _R I _R - - - 5 I _R I _R - - - 50 V _{(BR)R} 100 - - C _{tot} - - 4 V _{fr} - - 2.5 t _{rr} - - 4 R _{thA} - - 0.35¹¹)

valid provided that electrodes are kept at ambient temperature



Rectification Efficiency Measurement Circuit

