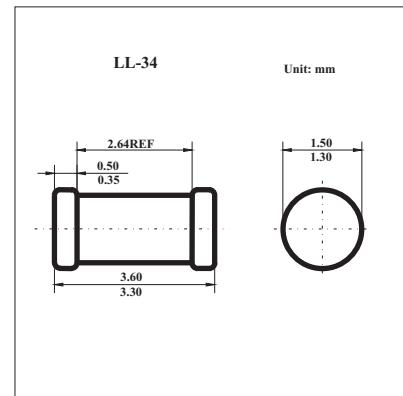


Fast Switching Surface Mount Diodes

KLL4148



■ Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- General Purpose Rectification
- Silicon Epitaxial Planar Construction

■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}	75	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current (*)	I _{FM}	300	mA
Average Rectified Output Current (*)	I _O	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 μ s @ t = 1.0s	I _{FSM}	2.0 1.0	A
Power Dissipation (*)	P _D	500	mW
Derate Above 25°C		1.68	mW/°C
Thermal Resistance Junction to Ambient Air (*)	R _{θ JA}	300	K/W
Operating and Storage Temperature Range	T _{j, T_{STG}}	-65 to +175	°C

* Valid provided that device terminals are kept at ambient temperature.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Maximum Forward Voltage	V _{FM}	I _F = 10mA			1.0	V
Maximum Peak Reverse Current	I _{RM}	V _R = 75V			5.0	μ A
		V _R = 70V, T _j = 150°C			50	
		V _R = 20V, T _j = 150°C			30	
		V _R = 20V			25	
Capacitance	C _J	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