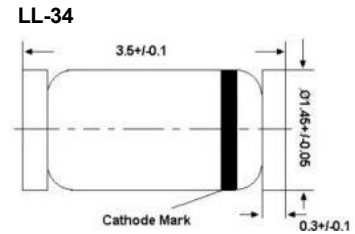


Silicon Epitaxial Planar Switching Diode

Fast switching diode in MiniMELF case especially suited for automatic surface mounting



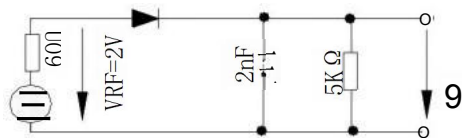
Glass case MiniMELF
Dimensions in mm

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

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	VRM	100	V
Reverse Voltage	VR	75	V
Average Rectified Forward Current	IF(AV)	200	mA
Non-repetitive Peak Forward Surge Current	IsM	0.5 1 4	A
		at $t=1\text{s}$ att=1ms att=1 μs	
Power Dissipation	Ptot	500①	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	-65 to +175	°C
①Valid provided that electrodes are kept at ambient temperature.			

Characteristics at Ta=25°C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I=10 mA	VF	-	1	V
Leakage Current at VR=20V at VR=75V at VR=20V, Tj=150°C	IR IR IR	- - -	25 5 50	nA μA μA
Reverse Breakdown Voltage tested with 100 μA Pulses	VBR)R	100	-	V
Capacitance at VR=0, f=1 MHz	Ctot	-	4	pF
Voltage Rise when Switching ON tested with 50 mA Forward Pulses tp=0.1 s, Rise Time<30 ns, fp=5 to 100 KHz	V折		2.5	V
Reverse Recovery Time at I=10 mA to I=1 mA, VR=6V, RL=100 Ω	tm	-	4	ns
Thermal Resistance Junction to Ambient Air	RthA	-	0.351)	K/mW
Rectification Efficiency at f=100 MHz, VRF=2V	ηv	0.45		
"Valid provided that electrodes are kept at ambient temperature.				


Rectification Efficiency Measurement Circuit

