

## Surface mount diode

## Standard silicon rectifier diodes

### GL 34A...GL 34M

Forward Current: 0,5 A

Reverse Voltage: 50 to 1000 V

### Features

- Max. solder temperature: 260°C
- Plastic material has UL classification 94V-0
- white ring denotes " cathode " and " standard rectifier family "
- colored ring denotes " repetitive peak reverse voltage "

### Mechanical Data

- Plastic case MiniMelf / SOD-80 / DO-213AA
- Weight approx.: 0,04 g
- Terminals: plated terminals solderable per MIL-STD-750
- Mounting position: any
- Standard packaging: 10000, 2500 pieces per reel

1) Max. temperature of the terminals  $T_T = 75^\circ\text{C}$

2)  $I_F = 0,5\text{ A}$ ,  $T_j = 25^\circ\text{C}$

3)  $T_A = 25^\circ\text{C}$

4) Mounted on P.C. board with 25 mm<sup>2</sup> copper pads at each terminal

Type	Polarity color band	Repetitive peak reverse voltage $V_{RRM}$ V	Surge peak reverse voltage $V_{RSM}$ V	Maximum forward voltage $T_j = 25^\circ\text{C}$ $I_F = 0,5\text{ A}$ $V_F^{2)}$ V	Maximum reverse recovery time $I_F = 0,5\text{ A}$ $I_R = 1\text{ A}$ $I_{RR} = 0,25\text{ A}$ $t_{rr}$ ns
GL 34A	gray	50	50	1,2	1500
GL 34B	red	100	100	1,2	1500
GL 34D	orange	200	200	1,2	1500
GL 34G	yellow	400	400	1,2	1500
GL 34J	green	600	600	1,3	1500
GL 34K	blue	800	800	1,3	1500
GL 34M	violet	1000	1000	1,3	1500

### Absolute Maximum Ratings

$T_c = 25^\circ\text{C}$ , unless otherwise specified

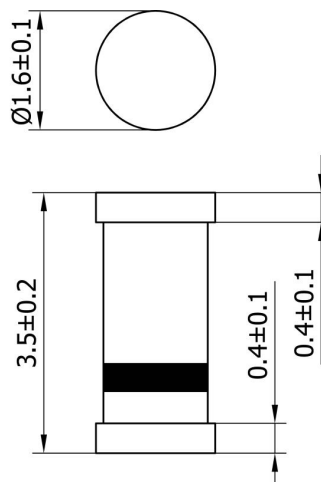
Symbol	Conditions	Values	Units
$I_{FAV}$	Max. averaged fwd. current, R-load, $T_T = 75^\circ\text{C}$ 1)	0,5	A
$I_{FRM}$	Repetitive peak forward current $f > \text{Hz}$	-	A
$I_{FSM}$	Peak fwd. surge current 50 Hz half sinus-wave 3)	8,3	A
$I^2t$	Rating for fusing, $t < 10\text{ ms}$ 3)	0,5	A <sup>2</sup> s
$R_{thA}$	Max. thermal resistance junction to ambient 4)	150	K/W
$R_{thT}$	Max. thermal resistance junction to terminals	70	K/W
$T_j$	Operating junction temperature	- 50 ... + 175	°C
$T_s$	Storage temperature	- 50 ... + 175	°C

### Characteristics

$T_c = 25^\circ\text{C}$ , unless otherwise specified

Symbol	Conditions	Values	Units
$I_R$	Maximum leakage current, $T_j = 25^\circ\text{C}$ ; $V_R = V_{RRM}$	<5	µA
	$T_j = 125^\circ\text{C}$ ; $V_R = V_{RRM}$	<50	µA
$C_J$	Typical junction capacitance (at MHz and applied reverse voltage of V)	-	pF
$Q_{rr}$	Reverse recovery charge ( $U_R = V$ ; $I_F = A$ ; $dI_F/dt = A/\text{ms}$ )	-	µC
$E_{RSM}$	Non repetitive peak reverse avalanche energy ( $I_R = \text{mA}$ ; $T_j = ^\circ\text{C}$ ; inductive load switched off)	-	mJ

Dimensions in mm



case: MiniMelf / DO-213AA

