

Surface mount diode

Ultrafast silicon rectifier diodes

EGL 1A ... EGL 1G

Forward Current: 1 A

Reverse Voltage: 50 to 400 V

Features

- Max. solder temperature: 260 °C
- Plastic material has UL classification 94V-0
- green ring denotes " cathode " and " ultrafast switching device "
- 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: 2500 pieces per reel

1) Max. temperature of the terminals $T_T = 75$ °C

2) $I_F = 1$ A, $T_j = 25$ °C

3) $T_A = 25$ °C

4) Mounted on P.C. board with 25 mm² 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 $T_j = 25$ °C $I_F = 1,0$ A $V_F^{(2)}$ V	Maximum reverse recovery time $I_F = 0,5$ A $I_R = 1$ A $I_{RR} = 0,25$ A t_{rr} ns
EGL 1A	gray	50	50	1,25	50
EGL 1B	red	100	100	1,25	50
EGL 1D	orange	200	200	1,25	50
EGL 1F	brown	300	300	1,35	50
EGL 1G	yellow	400	400	1,35	50

Absolute Maximum Ratings

$T_c = 25$ °C, unless otherwise specified

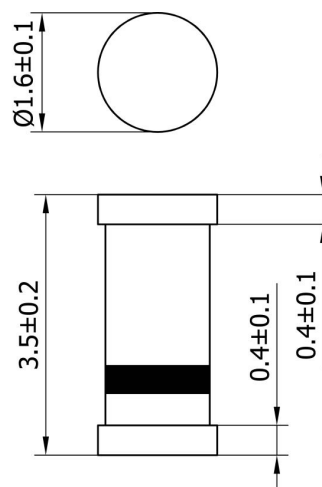
Symbol	Conditions	Values	Units
I_{FAV}	Max. averaged fwd. current, R-load, $T_T = 75$ °C ¹⁾	1	A
I_{FRM}	Repetitive peak forward current $f > \text{Hz}$	-	A
I_{FSM}	Peak fwd. surge current 60 Hz half sinus-wave ³⁾	30	A
I^2t	Rating for fusing, $t < 10$ ms ³⁾	4,5	A ² s
R_{thA}	Max. thermal resistance junction to ambient ⁴⁾	150	K/W
R_{thT}	Max. thermal resistance junction to terminals	60	K/W
T_j	Operating junction temperature	- 50 ... + 175	°C
T_s	Storage temperature	- 50 ... + 175	°C

Characteristics

$T_c = 25$ °C, unless otherwise specified

Symbol	Conditions	Values	Units
I_R	Maximum leakage current, $T_j = 25$ °C; $V_R = V_{RRM}$	<5	µA
	$T_j = 125$ °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 ($U_R = V$; $I_F = A$; $dI_F/dt = A/ms$)	-	µC
E_{RSM}	Non repetitive peak reverse avalanche energy ($I_R = \text{mA}$; $T_j =$ °C; inductive load switched off)	-	mJ

Dimensions in mm



case: MiniMelf / DO-213AA

