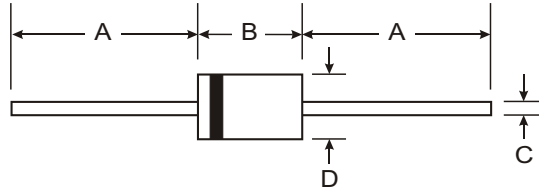


Features

- Low Forward Voltage Drop
- Fast Switching Speeds
- Guard Ring Construction for Transient Protection
- Surface Mount Versions Available (LL42 / LL43)



Mechanical Data

- Case: DO-35, Plastic
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol			Unit
		BAT42	BAT43	
Peak Repetitive Reverse Voltage	V _{RRM}	30		V
Working Peak Reverse Voltage	V _{RWM}			
DC Blocking Voltage	V _R			
RMS Reverse Voltage	V _{R(RMS)}	21		V
Forward Continuous Current (Note 1)	I _{FM}	200		mA
Repetitive Peak Forward Current (Note 1) @ t < 1.0s Duty Cycle < 50%	I _{FRM}	500		mA
Non-Repetitive Peak Forward Surge Current @ t = 10ms	I _{FSM}	4.0		A
Power Dissipation (Note 1)	P _d	200		mW
Thermal Resistance, Junction to Ambient Air (Note 1)	R _{θJA}	500		K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-55 to +125		°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	30	—	—	V	I _{RS} = 100μA Pulses
Maximum Forward Voltage Drop (Note 2)	V _{FM}	—	—	1.00	V	I _F = 200mA I _F = 10mA I _F = 50mA I _F = 2.0mA I _F = 15mA
		—	—	0.40		
		—	—	0.65		
		0.26	—	0.33		
		—	—	0.45		
Maximum Peak Reverse Current (Note 2)	I _{RM}	—	—	0.50 100	μA	V _R = 25V V _R = 25V, T _j = 100°C
Junction Capacitance	C _j	—	10	—	pF	V _R = 1.0V, f = 1.0MHz
Reverse Recovery Time	t _{rr}	—	—	5.0	ns	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R , R _L = 100Ω
Rectification Efficiency	η _V	80	—	—	%	R _L = 100Ω, C _L = 300pF, f = 45MHz, V _{RF} = 2.0V

- Notes: 1. Valid provided that leads are kept at ambient temperature.
2. t < 300μs, Duty Cycle < 2%.



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.