



Micro Commercial Components
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BAT85 SMALL SIGNAL SCHOTTKY DIODES

Features

- For general purpose applications
- These diodes features very low turn-on voltage and fast switching.
These devices are protected by a PN junction guard ring against excessive voltage,such as electrostatic discharges.
- This diode is also available in the Mini-MELF case with type designation LL85.

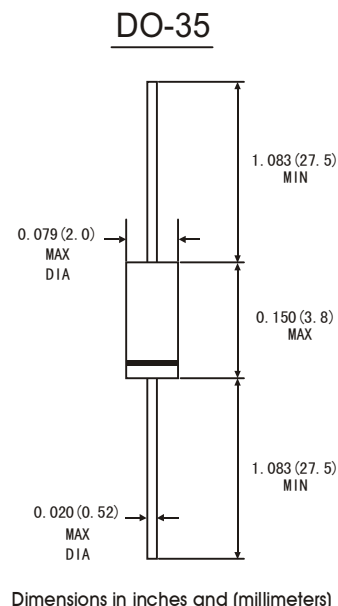
MECHANICAL DATA

- Case: Do-35 glass case
- Polarity: Color band denotes cathode end
- Weight: Approx. 0.13 gram

ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	Value	Units
Repetitive Peak Reverse Voltage	V_R	30	V
Forward Continuous Current at $T = 25^{\circ}\text{C}$	I_F	200	mA
Repetitive Peak Forward Current at $t < 1\text{s}$, $\Delta < 0.5$, $T = 25^{\circ}\text{C}$	I_{FM}	300	mA
Surge forward current at $t_p < 10\text{ms}$, $T = 25^{\circ}\text{C}$	I_{FSM}	600	mA
Power Dissipation at $T = 65^{\circ}\text{C}$	P_{tot}	200	mW
Junction temperature	T_J	125	$^{\circ}\text{C}$
Ambient Operating temperature Range	T_A	$-55 \sim +125$	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	$-55 \sim +150$	$^{\circ}\text{C}$

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature



ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Typ.	Max.	Units
Reverse breakdown voltage Tested with 100 μ A pulses	$V_{(BR)R}$	30			V
Forward voltage Pulse Test $t_p < 300\mu\text{s}$, $\delta < 2\%$ at $I_F = 0.1\text{mA}$, at $I_F = 1\text{mA}$, at $I_F = 10\text{mA}$, at $I_F = 30\text{mA}$, at $I_F = 100\text{mA}$	V_F V_F V_F V_F V_F		0.50	0.24 0.32 0.4 0.8	V V V V V
Leakage current $V_R = 25\text{V}$	I_R			2	μA
Junction Capacitance at $V_R = 1\text{V}$, $f = 1\text{MHz}$	C_J			10	pF
Reverse recovery time Form $I_F = 10\text{mA}$, $I_R = 10\text{mA}$, $I_R = 1\text{mA}$	t_{rr}			5	ns
Thermal resistance junction to ambient Air	$R_{\theta JA}$			300 ¹⁾	K/W

1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature(DO-35)