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BAT85 SMALL SIGNAL SCHOTTKY DIODES

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- 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.
- Moisture Sensitivity Level 1

MECHANICAL DATA

• Case: Do-35 glass case

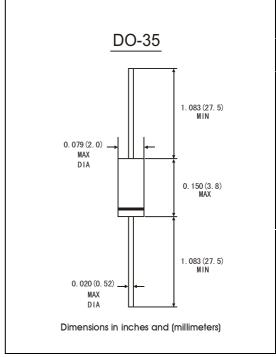
· Polarity: Color band denotes cathode end

• 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°C	IF	200	mA			
Repetitive Peak Forward Current at t<1s, ä< 0.5,T=25°C	I _{FM}	300	mA			
Surge forward current at t _p <10mS , T=25 ⁰ C	I _{FSM}	600	mA			
Power Dissipation at T=65°C	P _{tot}	200	mW			
Junction temperature	TJ	125	°C			
Ambient Operating temperature Range	TA	-55~+125	°C			
Storage Temperature Range	T _{STG}	-55~+150	°C			
1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature						





ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Тур.	Max.	Units
Reverse breakdown voltage Tested with 100µA pulses	V(BR)R	30			٧
Forward voltage Pulse Test $t_p < 300 \mu s, \delta < 2\%$ at $t_F = 0.1 mA$, at $t_F = 1 mA$, at $t_F = 10 mA$, at $t_F = 30 mA$, at $t_F = 30 mA$, at $t_F = 100 mA$	VF VF VF VF		0.50	0.24 0.32 0.4 0.8	V V V V
Leakage current VR=25V	l _R			2	μА
Junction Capacitance at V _R =1V ,f=1MHz	C1			10	pF
Reverse recovery time Form $I_F = 10 \text{mA}, I_R = 10 \text{mA}, I_R = 1 \text{mA}$	trr			5	ns
Thermal resistance junction to ambient Air	Reja			300 ¹⁾	K/W
Valid provided that leads at a distance of 4mm from case	-	u emperature(DO-35	i	<u>I</u>	1 .,

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 5.