



**Micro Commercial Components** 



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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

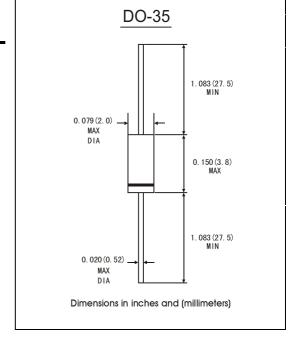
• Case: Do-35 glass case

Polarity: Color band denotes cathode end

Weight: Approx. 0.13 gram

# ABSOLUTE RATINGS (LIMITING VALUES)

	Symbols	Value	Units	
Repetitive Peak Reverse Voltage	V <sub>R</sub>	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 <sub>FM</sub>	300	mA	
Surge forward current at t <sub>p</sub> <10mS , T=25 <sup>0</sup> C	I <sub>FSM</sub>	600	mA	
Power Dissipation at T=65°C	P <sub>tot</sub>	200	mW	
Junction temperature	TJ	125	°C	
Ambient Operating temperature Range	TA	-55~+125	°C	
Storage Temperature Range	T <sub>STG</sub>	-55~+150	<sup>0</sup> 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 $t_F = 10 mA$ , at $t_F = 30 mA$ , at $t_F = 10 mA$	VF VF VF VF		0.50	0.24 0.32 0.4 0.8	V V V V
Leakage current VR=25V	l <sub>R</sub>			2	μА
Junction Capacitance at VR=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 <sup>1)</sup>	K/W
1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature(DO-35)					

Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.



#### **Micro Commercial Components**

### Ordering Information:

Device	Packing	
Part Number-TP	Tape&Reel: 10Kpcs/Reel	
Part Number-AP	Ammo Packing: 5Kpcs/Ammo Box	
Part Number-BP	Bulk: 100Kpcs/Carton	

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