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### **BAT86**

# **SMALL SIGNAL SCHOTTKY DIODES**

#### **Features**

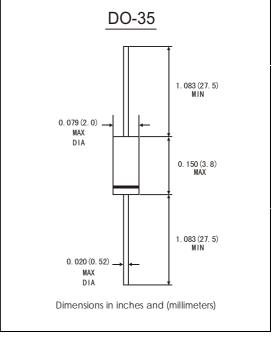
- Moisture Sensitivity: Level 1 per J-STD-020C
- For general purpose applications
- These diodes features very low turn-on voltage and fast switching. These devices are protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges.
- These diode is also available in the Mini-MELF case with type designation LL86
- Metal-on-silicon Schottky barrier device which is protected by a PN junction guard ring. The low forward voltage drop and fast switching
- Make it ideal for protection of MOS devices, and low logic applications.
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

### MECHANICAL DATA

- Weight: Approx. 0.13 gram
- Case: Do-35 glass case
- Marking: Cathode band and type number

## ABSOLUTE RATINGS (LIMITING VALUES)

	Symbols	Value	Units		
Repetitive Peak Reverse Voltage	V <sub>R</sub>	50	V		
Forward Continuous Current at T =25°C	IF	2001)	mA		
Repetitive Peak Forward Current at t<1s,ä< 0.5,T <sub>A</sub> =25 <sup>0</sup> C	I <sub>FRM</sub>	3001)	mA		
Power Dissipation at T <sub>A</sub> =65 <sup>0</sup> C	Ptot	2001)	mW		
Junction temperature	TJ	125	°C		
Ambient Operating temperature Range	T <sub>A</sub>	-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**

V(BR)R	50			
	50			V
VF VF VF VF		0.200 0.272 0.365 0.460 0.700	0.300 0.380 0.450 0.600 0.900	V V V V
lr		0.2	0.5	μΑ
Cı			8	pF
trr			5	ns
Reja			300 1)	K/W
	VF VF VF IR CJ trr	VF VF VF IR CJ	VF 0.272 VF 0.365 VF 0.460 VF 0.700 IR 0.2 CJ trr RejA	VF         0.272         0.380           VF         0.365         0.450           VF         0.460         0.600           VF         0.700         0.900           IR         0.2         0.5           CJ         8           trr         5           RøJA         300 1)

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