

Micro Commercial Components 21201 Itasca Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

#### 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.
- 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.

### MECHANICAL DATA

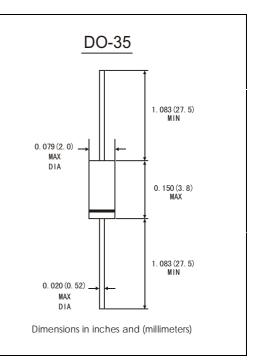
- Case: Do-35 glass case
- Polarity: Color band denotes cathode end
- Weight: Approx. 0.13 gram

#### ABSOLUTE RATINGS (LIMITING VALUES)

	2		
	Symbols	Value	Units
Repetitive Peak Reverse Voltage	V <sub>R</sub>	50	V
Forward Continuous Current at T =25°C	IF	200 <sup>1)</sup>	mA
Repetitive Peak Forward Current at t<1s,ä< 0.5,T <sub>A</sub> =25 <sup>0</sup> C	I <sub>FRM</sub>	300 <sup>1)</sup>	mA
Power Dissipation at T <sub>*</sub> =65 <sup>0</sup> C	Ptot	200 <sup>1)</sup>	mW
Junction temperature	TJ	125	<sup>0</sup> C
Ambient Operating temperature Range	T <sub>A</sub>	-55~+125	<sup>0</sup> 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 ca	ase are kep	t at ambient t	emperature

## BAT86

### SMALL SIGNAL SCHOTTKY DIODES



### ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Тур.	Max.	Units
Reverse breakdown voltage Tested with $10\mu A$ pulses	V(BR)R	50			V
Forward voltage Pulse Test $t_{P} < 300 \mu s, \delta < 2\%$ at $l = 0.1 m A$ , at $l = 1 m A$ , at $l = 10 m A$ , at $l = 30 m A$ , at $l = 10 m A$ , at $l = 10 m A$ ,	VF 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 V
Leakage current VR=25V	IR		0.2	0.5	μA
Junction Capacitance at V <sub>R</sub> =1V ,f=1MHz	Сл			8	pF
Reverse recovery time Form $I_{F}\!=\!10mA, I_{R}\!=\!10mA, I_{R}\!=\!1mA$	trr			5	ns
Thermal resistance junction to ambient Air	Reja			300 <sup>1)</sup>	K/W

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