

### SMALL SIGNAL SCHOTTKY DIODES

DO-35

#### **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.
- 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, steering, biasing and coupling diodes for fast switching and low logic level applications
- · This diode is also available in the MiniMELF case with the type designation LL86.
- · High temperature soldering guaranteed:260°C/10 seconds at terminals
- · Component in accordance to RoHS 2011/65/EU

### **MECHANICAL DATA**

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

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Dimensions in inches and (millimeters)

# ABSOLUTE RATINGS(LIMITING VALUES)

	Symbols	Value	Units
Continuous Reverse Voltage	VR	50	V
Forward Continuous Current at T <sub>A</sub> =25°C	lF	200 <sup>1)</sup>	mA
Repetitive Peak Forward Current at $t_P$ < 1s, $\delta \le 0.5$ , $T_A$ =25°C	IFRM	300 <sup>1)</sup>	mA
Power Dissipation at T <sub>A</sub> =65°C	Ptot	200 <sup>1)</sup>	mW
Junction temperature	TJ	125	°C
Ambient Operating temperature Ramge	TA	-55 to+125	°C
Storage Temperature Range	Тѕтс	-55 to+150	°C
1) Valid provided that leads at a distance of 4mm from case are kept at ambi	ent temnerature	-	

## **ELECTRICAL CHARACTERISTICS**

	Symbols	Min.	Тур.	Max.	Unis
Reverse breakdown voltage Tested with 10µA Pulses	V(BR)R	50			V
Forward voltage Pulse Test $t_p \le 300 \mu s, \delta \le 2\%$ at $l = 0.1 mA$ , at $l = 11 mA$ , at $l = 10 mA$ , at $l = 10 mA$ , at $l = 100 mA$ , at $l = 100 mA$ , at $l = 100 mA$	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
Leakage current VR=25V	lr		0.2	0.5	μА
Junction Capacitance at V <sub>R</sub> =1V ,f=1MHz	СJ			8	pF
Reverse recovery time Form I <sub>F</sub> =10mA to I <sub>R</sub> =10mA to I <sub>R</sub> =1mA	trr			5	ns
Thermal resistance junction to ambient Air	RθJA			300 <sup>1)</sup>	°C/W

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