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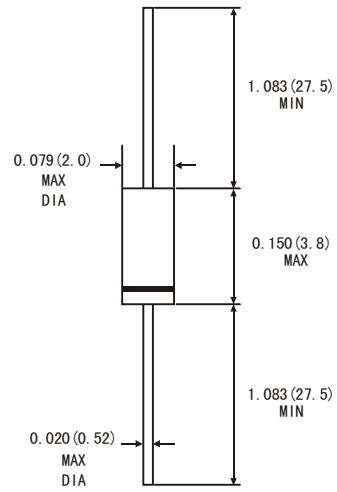
BAT85

SMALL SIGNAL SCHOTTKY DIODES

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.
- This diode is also available in the Mini-MELF case with type designation LL85.

DO-35



Dimensions in inches and (millimeters)

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^{0}C	I_F	200	mA
Repetitive Peak Forward Current at t<1s, ä< 0.5,T=25^{0}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^{0}C	P_{tot}	200	mW
Junction temperature	T_J	125	^{0}C
Ambient Operating temperature Range	T_A	-55~+125	^{0}C
Storage Temperature Range	T_{STG}	-55~+150	^{0}C
1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature			

ELECTRICAL CHARACTERISTICS

	Symbols	Min.	Typ.	Max.	Units
Reverse breakdown voltage Tested with 100µA pulses	$V_{(BR)R}$	30			V
Forward voltage Pulse Test t_P <300µs,δ <2% at I_F=0.1mA, at I_F=1mA, at I_F=10mA, at I_F=30mA, at I_F=100mA	 V_F V_F V_F V_F V_F		 0.50	 0.24 0.32 0.4 0.8	 V V V V V
Leakage current V_R=25V	I_R			2	µA
Junction Capacitance at V_R=1V ,f=1MHz	C_J			10	pF
Reverse recovery time Form I_F=10mA,I_R=10mA,I_R=1mA	t_{rr}			5	ns
Thermal resistance junction to ambient Air	$R_{\theta JA}$			300 [1]	K/W
1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature(DO-35)					