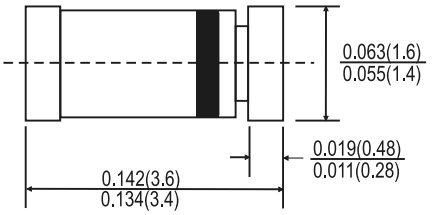
BAS85

SCHOTTKY DIODES

Mini-MELF (SOD-80C)

FEATURES:

- For general purpose applications
- This diode-features low turn-on voltage.
- The devices are protectd by a PN junction guard ring against excessive voltage. Such as electrostatic discharges.
- This diode is also available in a DO-35 case with type designation BAT85.



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: MINI MELF glass case (SOD-80C)
Weight:Approx. 0.05gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temp. unless otherwise specified.
Single phase, half sine wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20 %.

Characteristic	Symbol	BAT85	Units
Minmum peak reverse voltage at IR=10uA	$V_{(BR)R}$	30	Volts
Maximum reverse voltage	V_R	30	Volts
Maximum forward continuous crrent at Ta=25℃	I_F	0.20	Amps
Maximum peak forward current at Ta=25℃	I_{FM}	0.30 [1)]	Amps
Maximum surge forward current at tp<1S ,Ta=25℃	I_{FSM}	0.60 [1)]	Amps
Maximum Power dissipation at Ta=25℃	Ptot	200 [1)]	mW
Maximum instantaneous forward voltage drop per leg at 0.100A	V_F	1.0	Volts
Maximun leakage current at VR=25V	I_R	2	uA
Maximum Reverse recovery time (Note 1)	TRR	5	ns
Maximun junction capacitance VR=1V,F=1MHz	Ctot	10	PF
Maximun Thermal resistance junction to ambient air	Rth JA	430 [1)]	℃/W
Maximum Operating temperature range	T_J	125	℃
Maximum storage temperature range	Tstg	-55 to+150	℃

NOTES:
(1)Reverse recovery condition I_F =0.01A , I_R =0.010A
1):Valid provided that electrodes are kept at ambient temperature