

BAT81 - BAT83

FEATURES :

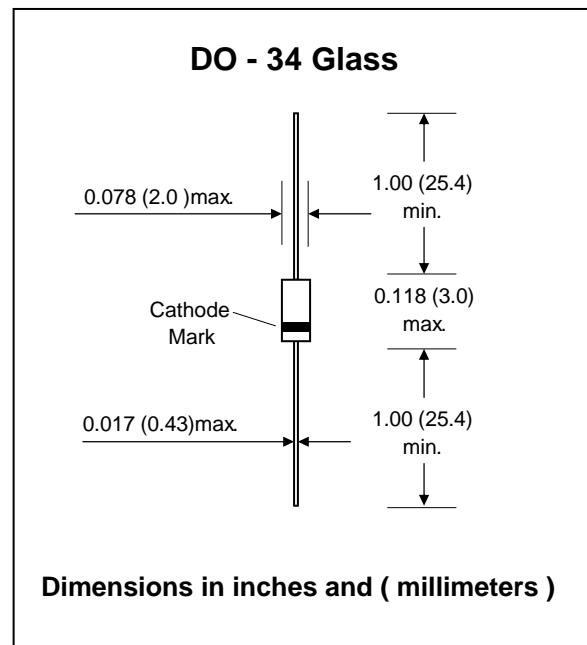
- Low forward voltage
- High breakdown voltage
- Guard ring protected
- Hermetically-sealed leaded glass package
- Low diode capacitance.
- Pb / RoHS Free

MECHANICAL DATA :

Case: DO-34 Glass Case

Weight: approx. 0.11g

SCHOTTKY BARRIER DIODES



Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified)

Parameter	Symbol	Value	Unit
BAT81		40	
Continuous Reverse Voltage	V _R	50	V
		60	
Forward Continuous Current	I _F	30 ⁽¹⁾	mA
Repetitive Peak Forward Current at t _p ≤ 1s	I _{FRM}	150 ⁽¹⁾	mA
Non-repetitive Peak Forward Surge Current at t _p ≤ 10ms	I _{FSM}	500 ⁽¹⁾	mA
Power Dissipation (Infinite Heatsink)	P _D	200 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	430 ⁽¹⁾	°C/W
Junction Temperature	T _J	125	°C
Storage temperature range	T _S	-65 to + 150	°C

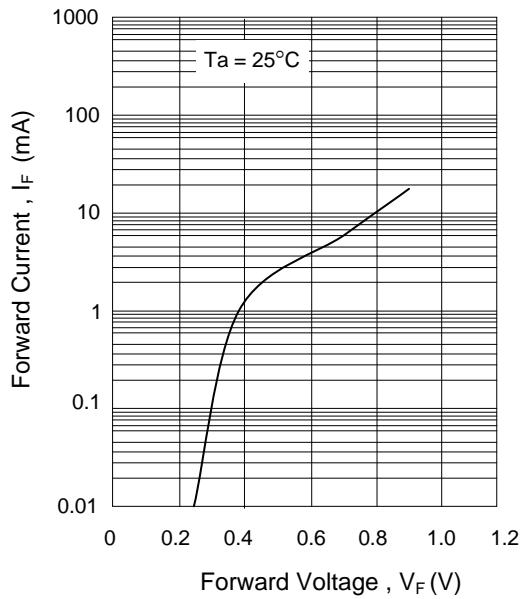
Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature.

Electrical Characteristics (T_J = 25°C unless otherwise noted)

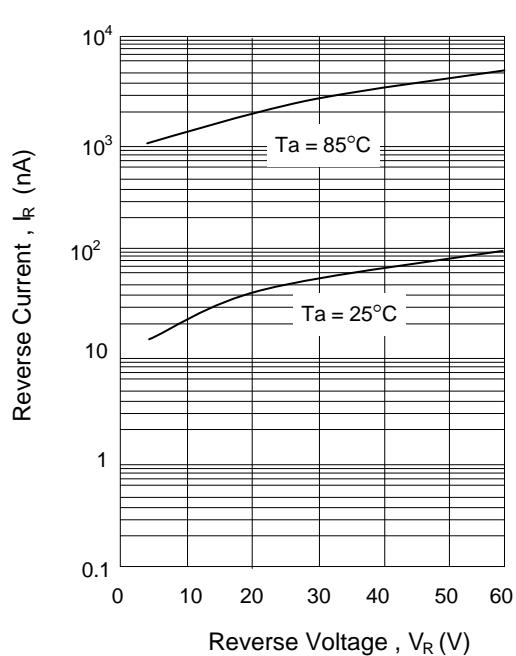
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	I _R	V _R = V _{Rmax}	-	-	200	nA
Forward Voltage	V _F	I _F = 1mA I _F = 15mA	-	-	0.41 1.0	V
Diode Capacitance	C _d	V _R = 1V, f = 1MHz	-	-	1.6	pF

RATING AND CHARACTERISTIC CURVES (BAT81 - BAT83)

Typical forward characteristics



Typical reverse characteristics



Typical diode capacitance as a function of reverse voltage

