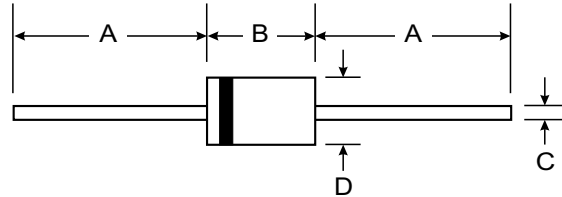


Features

- 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

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

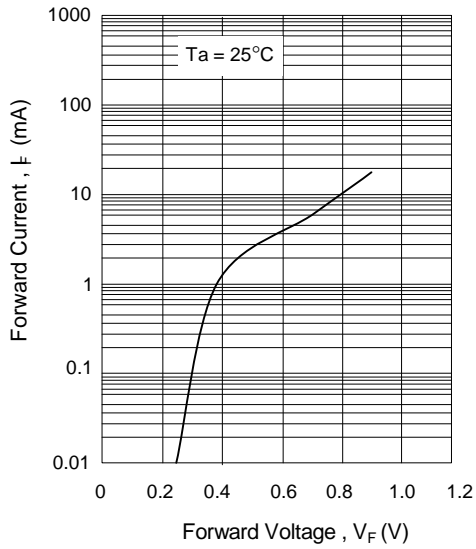
Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit			
Continuous Reverse Voltage	V _R	BAT81	40			
		BAT82	50			
		BAT83	60			
Forward Continuous Current	I _F	30 ⁽¹⁾	mA			
Repetitive Peak Forward Current at tp ≤ 1s	I _{FRM}	150 ⁽¹⁾	mA			
Non-repetitive Peak Forward Surge Current at tp ≤ 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			
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	-	-	0.41	V
		I _F = 15mA	-	-	1.0	
Diode Capacitance	Cd	V _R = 1V, f = 1MHz	-	-	1.6	pF

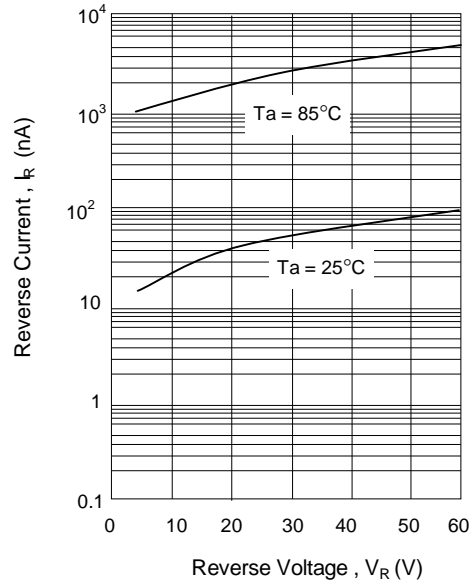
Note: (1) Valid provided that leads at a distance of 4mm from case are kept at ambient temperature.



Typical forward characteristics



Typical reverse characteristics



Typical diode capacitance as a function of reverse voltage

