

Features

- ◆ For general purpose applications.
- ◆ This diode features low turn-on voltage and high breakdown voltage. This device is protected by a PN junction guard ring against excessive voltage, such as electrostatic discharges
- ◆ This diode is also available in the MiniMELF case with type designation LL41.

Mechanical Data

- ◆ Case: DO-35 Glass Case
- ◆ Weight: approx. 0.13g

Maximum Ratings and Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	100	Volts
Forward continuous current at $T_{amb}=25^{\circ}\text{C}$	I_F	100 ⁽¹⁾	mA
Repetitive peak forward current at $t_p < 1\text{s}$, @ < 0.5 , $T_{amb}=25^{\circ}\text{C}$	I_{FRM}	350 ⁽¹⁾	mA
Surge forward current at $t_p=10\text{ms}$, $T_{amb}=25^{\circ}\text{C}$	I_{FSM}	750 ⁽¹⁾	mA
Power dissipation at $T_{amb}=25^{\circ}\text{C}$	P_{tot}	400 ⁽¹⁾	mW
Thermal resistance junction to ambient air	$R_{\theta JA}$	300 ⁽¹⁾	$^{\circ}\text{C}/\text{W}$
Junction temperature	T_J	125	$^{\circ}\text{C}$
Ambient operating temperature range	T_{amb}	-65 to +125	$^{\circ}\text{C}$
Storage temperature range	T_S	-65 to +150	$^{\circ}\text{C}$

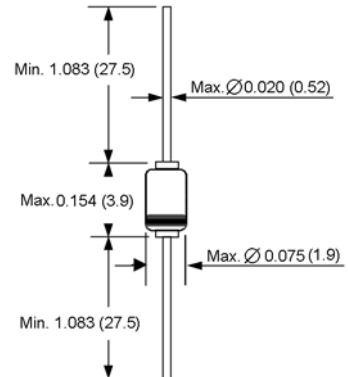
Electrical Characteristics

($T_J=25^{\circ}\text{C}$ unless otherwise noted.)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse breakdown voltage ⁽²⁾	$V_{(BR)R}$	$I_R=100\mu\text{A}$	100	110	-	Volts
Leakage current ⁽²⁾	I_R	$V_R=50\text{V}$, $T_J=25^{\circ}\text{C}$ $V_R=50\text{V}$, $T_J=100^{\circ}\text{C}$	-	-	100 20	nA uA
Forward voltage ⁽²⁾	V_F	$I_F=1\text{mA}$ $I_F=200\text{mA}$	-	0.40 -	0.45 1.0	Volt
Capacitance	C_{tot}	$V_R=1\text{V}$, $f=1\text{MHz}$	-	2	-	pF
Reverse recovery time	t_{rr}	$I_F=10\text{mA}$, $I_R=10\text{mA}$, $I_R=1\text{mA}$, $R_L=100\Omega$	-	5	-	ns

- Notes:**
1. Valid provided that leads at a distance of 4mm from case are kept at ambient temperature
 2. Pulse test, $t_p=300\mu\text{s}$

DO-204AH (DO-35 Glass)

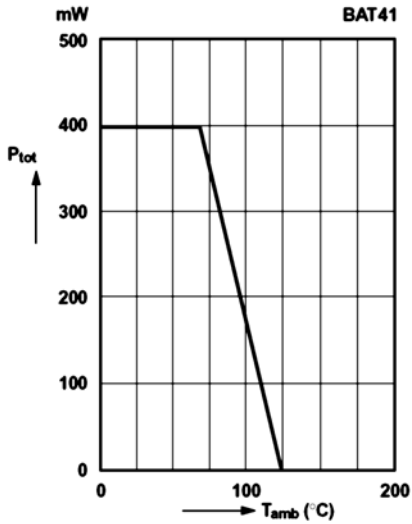


Dimensions in inches and (millimeters)

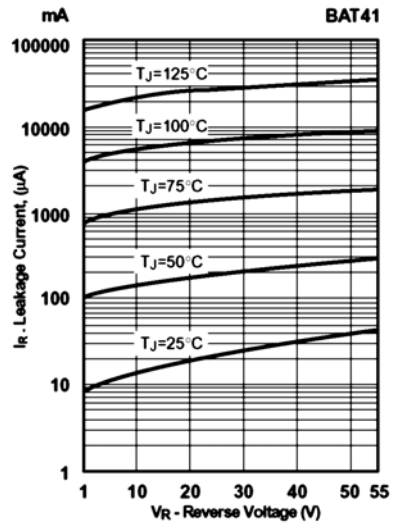


RATINGS AND CHARACTERISTIC CURVES

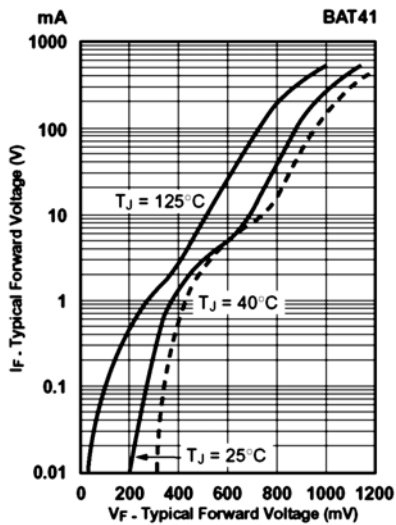
Admissible Power Dissipation vs. Ambient Temperature



Typical Reverse Characteristics



Forward Characteristics



Typical Capacitance vs. Reverse Voltage

