

Features

- ◆ For general purpose applications.
- ◆ These diodes feature 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 MiniMELF case with type designation LL42 to LL43.

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}	30	Volts
Forward continuous current at $T_{amb}=25^{\circ}\text{C}$	I_F	200 ⁽¹⁾	mA
Repetitive peak forward Current at $t_p < 1\text{s}$, $\delta < 0.5$, $T_{amb}=25^{\circ}\text{C}$	I_{FRM}	500 ⁽¹⁾	mA
Surge forward current at $t_p < 10\text{ms}$, $T_{amb}=25^{\circ}\text{C}$	I_{FSM}	4 ⁽¹⁾	Amps
Power dissipation ⁽¹⁾ at $T_{amb}=65^{\circ}\text{C}$	P_{tot}	200 ⁽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	$^{\circ}\text{C}$

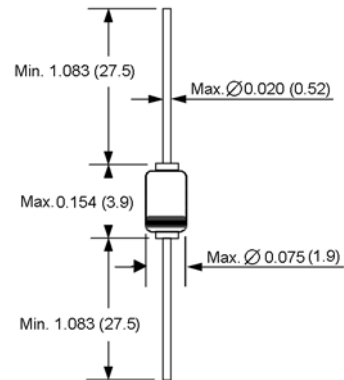
Electrical Characteristics

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=100\mu\text{A}$ (pulsed)	30	-	-	Volts
Leakage current pulse test $t_p < 300\mu\text{s}$, $\delta < 2\%$	I_R	$V_F=25\text{V}$ $V_R=25\text{V}$, $T_j=100^{\circ}\text{C}$	-	-	0.5 100	μA
Forward voltage pulse test $t_p < 300\mu\text{s}$, $\delta < 2\%$	V_F	$I_F=200\text{mA}$ $I_F=10\text{mA}$ $I_F=50\text{mA}$ $I_F=2\text{mA}$ $I_F=15\text{mA}$	-	-	1.0 0.40 0.65 0.33 0.45	Volt
Capacitance	C_{tot}	$V_R=1\text{V}$, $f=1\text{MHz}$	-	7	-	pF
Reverse recovery time	t_{rr}	$I_F=10\text{mA}$, $I_R=10\text{mA}$, $I_F=1\text{mA}$, $R_L=100\Omega$	-	-	5	ns
Detection efficiency	η_v	$R_L=15\text{K}\Omega$, $C_L=300\text{pF}$ $f=45\text{MHz}$, $V_{RF}=2\text{V}$	80	-	-	%

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

DO-204AH (DO-35 Glass)



Dimensions in inches and (millimeters)

