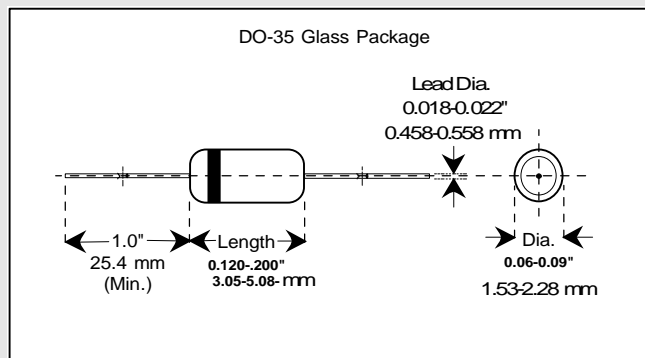


## Applications

Used in general purpose applications, where a controlled forward characteristic and fast switching speed are important.

## Features

- Six sigma quality
- Metallurgically bonded
- BKC's Sigma Bond™ plating for problem free solderability



Maximum Ratings	Symbol	Value	Unit	
Peak Inverse Voltage	PIV	85 (Min).	Volts	
Average Rectified Current	I <sub>avg</sub>	200	mAmps	
Continuous Forward Current	I <sub>Fdc</sub>	200	mAmps	
Peak Surge Current (t <sub>peak</sub> = 1 sec.)	I <sub>peak</sub>	1.0	Amp	
BKC Power Dissipation T <sub>L</sub> =50 °C, L = 3/8" from body	P <sub>tot</sub>	500	mWatts	
Operating Temperature Range	T <sub>Op</sub>	-65 to +200	° C	
Storage Temperature Range	T <sub>St</sub>	-65 to +200	° C	
Electrical Characteristics @ 25 °C*	Symbol	Minimum	Maximum	Unit
Forward Voltage Drop @ I <sub>F</sub> = 400 mA	V <sub>F</sub>	***	1.10	Volts
Breakdown Voltage @ I <sub>R</sub> = 25 μA	PIV	85		Volts
Reverse Leakage Current @ V <sub>R</sub> = 50 V	I <sub>R</sub>		100	μA
Reverse Recovery time (note 1)	t <sub>rr</sub>		10	nSecs

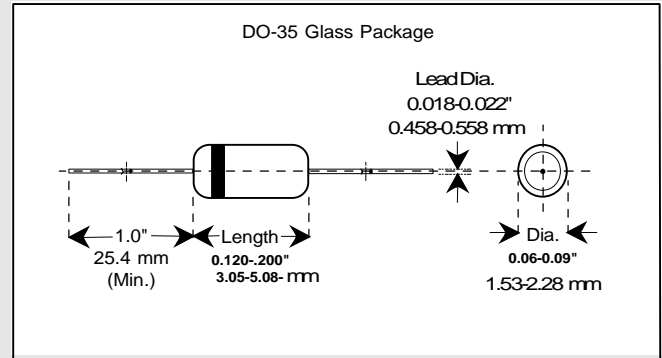
Note 1: Per Method 4031-A with I<sub>F</sub> = 10 mA, V<sub>r</sub> = 6 V, R<sub>L</sub> = 100 Ohms. \* UNLESS OTHERWISE SPECIFIED

## Applications

Used in general purpose applications, where a controlled forward characteristic and fast switching speed are important.

## Features

- Six sigma quality
- Metallurgically bonded
- BKC's Sigma Bond™ plating for problem free solderability



Maximum Ratings	Symbol	Value	Unit	
Peak Inverse Voltage	PIV	85 (Min).	Volts	
Average Rectified Current	$I_{avg}$	200	mAmps	
Continuous Forward Current	$I_{Fdc}$	500	mAmps	
Peak Surge Current ( $t_{peak} = 1 \text{ sec.}$ )	$I_{peak}$	1.0	Amp	
BKC Power Dissipation $T_L = 50^\circ\text{C}$ , $L = 3/8"$ from body	$P_{tot}$	500	mWatts	
Operating Temperature Range	$T_{Op}$	-65 to +150	$^\circ\text{C}$	
Storage Temperature Range	$T_{St}$	-65 to +150	$^\circ\text{C}$	
Electrical Characteristics @ 25 $^\circ\text{C}$ *	Symbol	Minimum	Maximum	Unit
Forward Voltage Drop @ $I_F = 400 \text{ mA}$	$V_F$	***	1.10	Volts
Breakdown Voltage @ $I_R = 25 \mu\text{A}$	PIV	85		Volts
Reverse Leakage Current @ $V_R = 50 \text{ V}$	$I_R$		100	$\mu\text{A}$
Reverse Recovery time (note 1)	$t_{rr}$		10	nSecs

Note 1: Per Method 4031-A with  $I_F = 10 \text{ mA}$ ,  $V_r = 6 \text{ V}$ ,  $R_L = 100 \text{ Ohms}$ . \* UNLESS OTHERWISE SPECIFIED

# Silicon Switching Diode



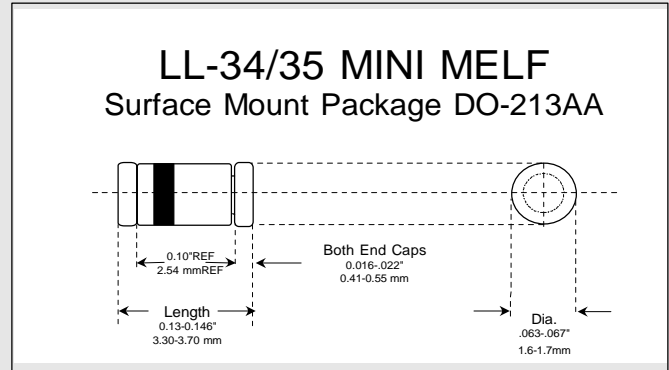
# L-35 Glass Package

## Applications

Used in general purpose applications, where a controlled forward characteristic and fast switching speed are important.

## Features

- Six sigma quality
- Metallurgically bonded
- BKC's Sigma Bond™ plating for problem free solderability



Maximum Ratings	Symbol	Value	Unit	
Peak Inverse Voltage	PIV	85 (Min).	Volts	
Average Rectified Current	I <sub>avg</sub>	200	mAmps	
Continuous Forward Current	I <sub>Fdc</sub>	200	mAmps	
Peak Surge Current (t <sub>peak</sub> = 1 sec.)	I <sub>peak</sub>	1.0	Amp	
BKC Power Dissipation	P <sub>tot</sub>	500	mWatts	
Operating Temperature Range	T <sub>Op</sub>	-65 to +200	°C	
Storage Temperature Range	T <sub>St</sub>	-65 to +200	°C	
Electrical Characteristics @ 25 °C*	Symbol	Minimum	Maximum	Unit
Forward Voltage Drop @ I <sub>F</sub> = 400 mA	V <sub>F</sub>	***	1.10	Volts
Breakdown Voltage @ I <sub>R</sub> = 25 μA	PIV	85		Volts
Reverse Leakage Current @ V <sub>R</sub> = 50 V	I <sub>R</sub>		100	μA
Reverse Recovery time (note 1)	t <sub>rr</sub>		10	nSecs

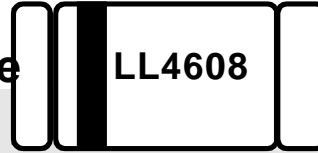
Note 1: Per Method 4031-A with I<sub>F</sub> = 10 mA, V<sub>R</sub> = 6 V, R<sub>L</sub> = 100 Ohms. \* UNLESS OTHERWISE SPECIFIED



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# Silicon Switching Diode



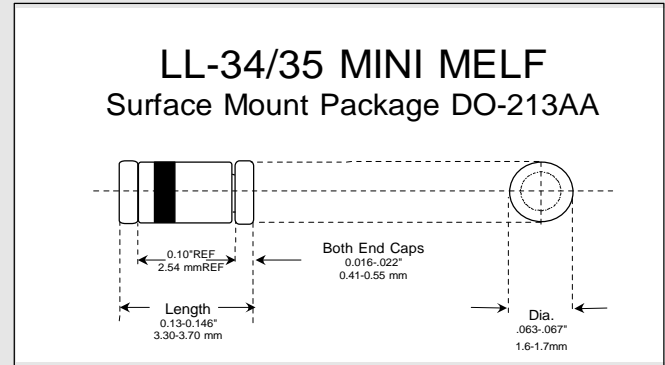
# LL-35 Glass Package

## Applications

Used in general purpose applications, where a controlled forward characteristic and fast switching speed are important.

## Features

- Six sigma quality
- Metallurgically bonded
- BKC's Sigma Bond™ plating for problem free solderability



Maximum Ratings	Symbol	Value	Unit	
Peak Inverse Voltage	PIV	85 (Min).	Volts	
Average Rectified Current	I <sub>avg</sub>	200	mAmps	
Continuous Forward Current	I <sub>Fdc</sub>	500	mAmps	
Peak Surge Current (t <sub>peak</sub> = 1 sec.)	I <sub>peak</sub>	1.0	Amp	
BKC Power Dissipation T <sub>L</sub> =50 °C, L = 3/8" from body	P <sub>tot</sub>	500	mWatts	
Operating Temperature Range	T <sub>Op</sub>	-65 to +150	°C	
Storage Temperature Range	T <sub>St</sub>	-65 to +150	°C	
Electrical Characteristics @ 25 °C*	Symbol	Minimum	Maximum	Unit
Forward Voltage Drop @ I <sub>F</sub> = 400 mA	V <sub>F</sub>	***	1.10	Volts
Breakdown Voltage @ I <sub>R</sub> = 25 µA	PIV	85		Volts
Reverse Leakage Current @ V <sub>R</sub> = 50 V	I <sub>R</sub>		100	µA
Reverse Recovery time (note 1)	t <sub>rr</sub>		10	nSecs

Note 1: Per Method 4031-A with I<sub>F</sub> = 10 mA, V<sub>r</sub> = 6 V, R<sub>L</sub> = 100 Ohms. \* UNLESS OTHERWISE SPECIFIED



**Microsemi**

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