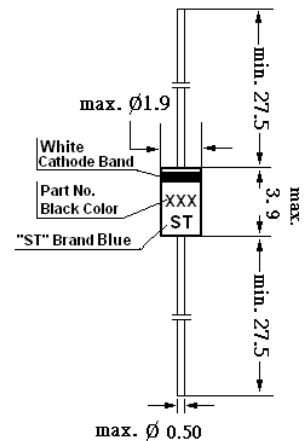


# 1N6008B

## SILICON PLANAR ZENER DIODES



Glass case JEDEC DO-35

Dimensions in mm

### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	500 <sup>1)</sup>	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_s$	-55 to +175	$^\circ\text{C}$

<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case

### Characteristics at $T_{\text{amb}} = 25\text{ }^\circ\text{C}$

	Symbol	Min.	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	-	0.3 <sup>1)</sup>	K/mW
Forward Voltage at $I_F = 200\text{mA}$	$V_F$	-	1.2	V

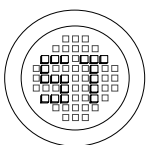
<sup>1)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case

### Characteristics at $T_{\text{amb}} = 25\text{ }^\circ\text{C}$

Type	Zener Voltage Range <sup>1)</sup>			Dynamic Resistance			Leakage Current		Maximum DC Zener Current $I_{\text{ZM}}$ mA
	$V_{\text{Znom}}$ V	$I_{\text{ZT}}$ mA	for $V_{\text{ZT}}$ <sup>2)</sup> V	$r_{\text{ZJT}}$ $\Omega$	$r_{\text{ZJK}}$ at $\Omega$	$I_{\text{ZK}}$ mA	$I_{\text{R}}$ at $\mu\text{A}$	$V_{\text{R}}$ V	
1N6008B	22	5	20.9...23.1	<55	<600	0.25	<100	17	23

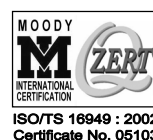
<sup>1)</sup> Tested with pulses  $t_p = 20\text{ ms}$ .

<sup>2)</sup> Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



**SEMTECH ELECTRONICS LTD.**

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