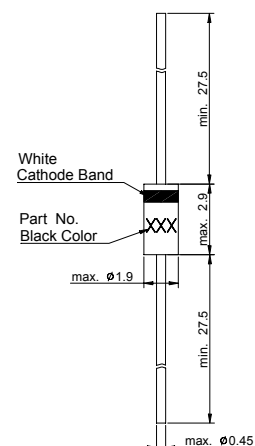


ZS Series

SILICON PLANAR ZENER DIODES



Glass case JEDEC DO-34

Dimensions in mm

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

	Symbol	Value	Unit
Power Dissipation	P_{tot}	400 ¹⁾	mW
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 65 to + 175	$^{\circ}\text{C}$

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

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

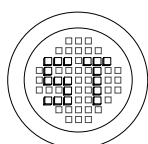
	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3 ¹⁾	K/mW
Forward Voltage at $I_F = 100\text{ mA}$	V_F	-	-	1	V

¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Characteristics at $T_j = 25\text{ }^{\circ}\text{C}$

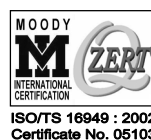
Type	Zener Voltage		I_{ZT} (mA)	Reverse leakage current		Reverse Leakage Current (I_R at V_R)	
	Min. (V)	Max. (V)		Ohm at I_{ZT}	I_{ZT} (mA)	I_R (μA) Max.	V_R (V)
ZS3C-1	3.1	3.3	5	100	5	5	0.5
ZS3C-2	3.2	3.4					
ZS3C-3	3.3	3.5					
ZS33-1	31.2	32.6	2	120	2	1	25
ZS33-2	32.2	33.6					
ZS33-3	33.2	34.6					

Tested with pulses $t_p = 20\text{ ms}$.



SEMTECH ELECTRONICS LTD.

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