

1SS5004WS

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Silicon Epitaxial Planar Diode

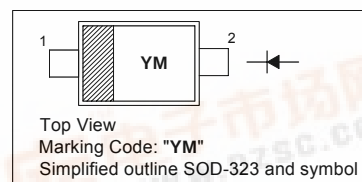
High Voltage Switching Diode

Features

- Fast switching speed
- High conductance
- High reverse breakdown voltage rating

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

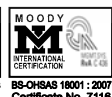
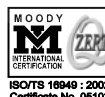
Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Reverse Voltage	V_R	350	V
Continuous Forward Current	I_F	225	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-Repetitive Peak Forward Surge Current (1 ms)	I_{FSM}	2	A
Power Dissipation	P_d	350	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 20\text{ mA}$ at $I_F = 100\text{ mA}$ at $I_F = 200\text{ mA}$	V_F	- - -	0.87 1 1.25	V
Reverse Current at $V_R = 240\text{ V}$	I_R	-	100	nA
Reverse Breakdown Voltage at $I_R = 150\text{ }\mu\text{A}$	$V_{(BR)R}$	400	-	V
Total Capacitance at $V_R = 0$, $f = 1\text{ MHz}$	C_T	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30\text{ mA}$, $i_{rr} = 3\text{ mA}$, $R_L = 100\text{ }\Omega$	t_{rr}	-	100	ns

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Dated : 25/09/2009

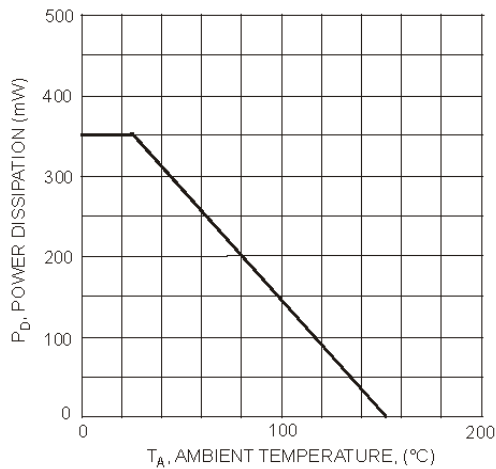


Fig. 1 Power Derating Curve, Total Package

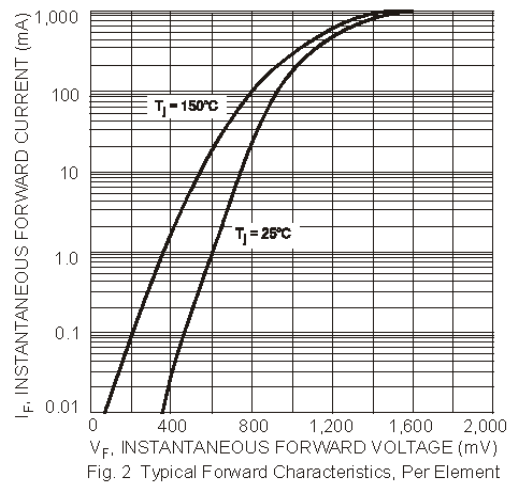


Fig. 2 Typical Forward Characteristics, Per Element

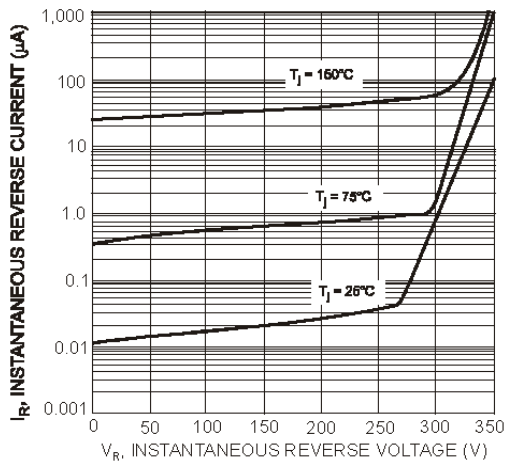


Fig. 3 Typical Reverse Characteristics, Per Element

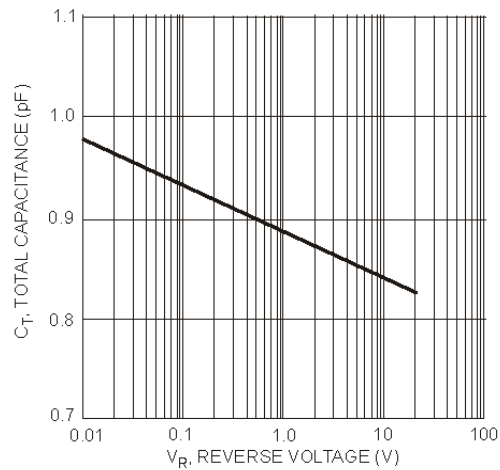
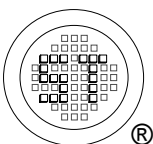
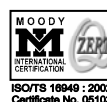


Fig. 4 Total Capacitance vs. Reverse Voltage, Per Element



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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323

