

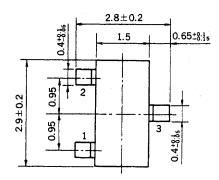
SILICON SWITCHING DIODES

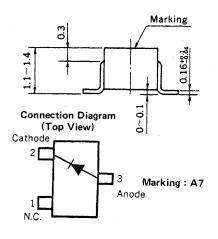
1SS222,1SS223

HIGH SPEED SWITCHING SILICON EPITAXIAL DIODES MINI MOLD

PACKAGE DIMENSIONS

in millimeters





FEATURES

- ◆ Low capacitance: C_t = 4.0 pF MAX.
- High speed switching: $t_{rr} = 3.0$ ns MAX.
- Wide applications including switching, limitter, clipper.

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Currents (T_a = 25 °C)

		188222	188223	
Peak Reverse Voltage	V_{RM}	70	100	V
DC Reverse Voltage	VR	70	100	V
Peak Forward Current	iFM	300	300	mΑ
Average Rectified Current	lo	100	100	mΑ
DC Forward Current	1 _F	100	100	mΑ
Maximum Temperatures				
Junction Temperature	T_j	150 °C		
Storage Temperature Range	T_{stg}	−55 to +150 °C		
Thermal Resistance				
Junction to Ambient	R _{th (j-a)}	0.	0.67 °C/mW	

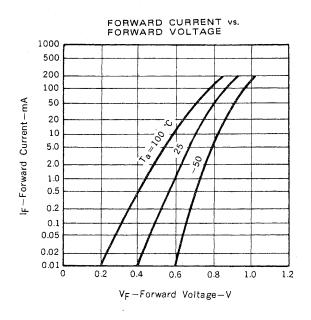
ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

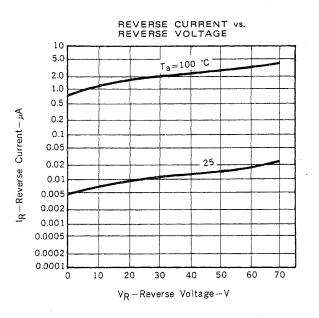
CHARACTERISTIC	S'	MBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
V _{F1}		V _{F1}		720	850	mV	!F = 10 mA
Forward Voltage	V _{F2}			850	1000	mV	IF = 50 mA
	V _{F3}			950	1200	mV	I _F ≈ 100 mA
Reverse Current	1	1SS222			1.0	μА	V _R = 70 V
	¹ R	1SS223			1.0	μА	V _R = 100 V
Capacitance	Ct			2.0	4.0	рF	V _R = 0, f = 1.0 MHz
Reverse Recovery Time	t _{rr}				3.0	ns	$I_F = 10 \text{ mA}, V_R = 6 \text{ V},$ $R_L = 100 \Omega, \text{ See Test Circuit.}$

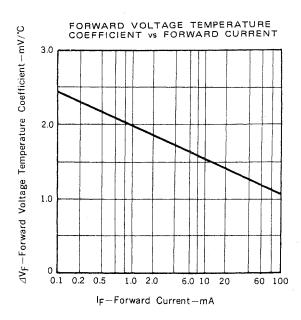
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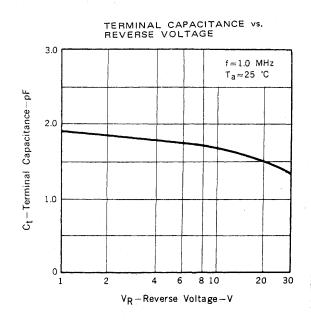
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TYPICAL CHARACTERISTICS (Ta = 25 °C)



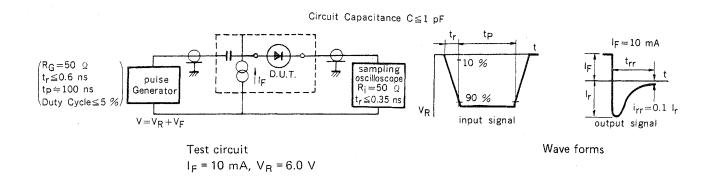






SWITCHING CHARACTERISTICS TEST CIRCUIT

Reverse recovery time : t_{rr}



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