

ELECTRICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)							
PARAMETER	TEST CONDITION	PART	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 50\text{ mA}$		V_F			1.1	V
Reverse voltage	$I_F = 10\text{ }\mu\text{A}$		V_R	100			V
Reverse current	$V_R = 50\text{ V}$		I_R			0.05	μA
Diode capacitance	$f = 1\text{ MHz}, V_R = 0\text{ V}$		C_D		0.5		pF
	$f = 1\text{ MHz}, V_R = 1\text{ V}$		C_D		0.37	0.5	pF
	$f = 1\text{ MHz}, V_R = 20\text{ V}$		C_D		0.23	0.35	pF
Differential forward resistance	$f = 100\text{ MHz}, I_F = 1\text{ mA}$		r_f		10	20	Ω
	$f = 100\text{ MHz}, I_F = 10\text{ mA}$		r_f		2	3.8	Ω
	$f = 100\text{ MHz}, I_F = 100\text{ mA}$		r_f		0.8	1.35	Ω
Charge carrier lifetime	$I_F = 10\text{ mA}, I_R = 6\text{ mA}, i_R = 3\text{ mA}$		t_{rr}		1.8		μs
Series inductance			L_S		1		nH

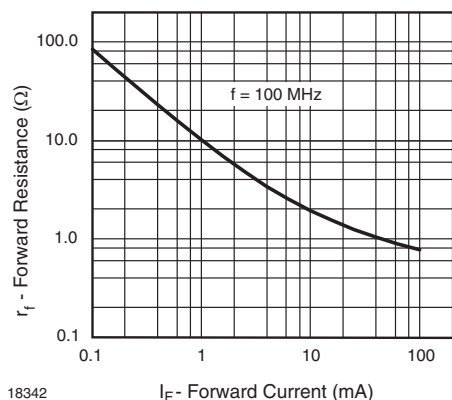
TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified)


Fig. 1 - Forward Resistance vs. Forward Current

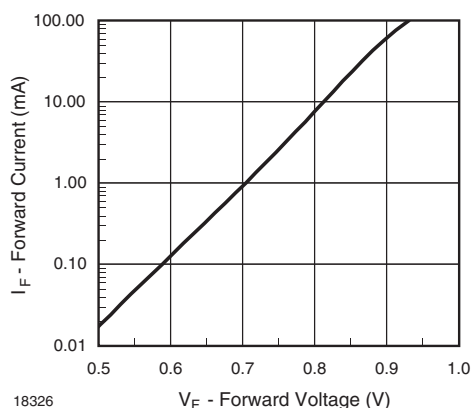


Fig. 3 - Forward Current vs. Forward Voltage

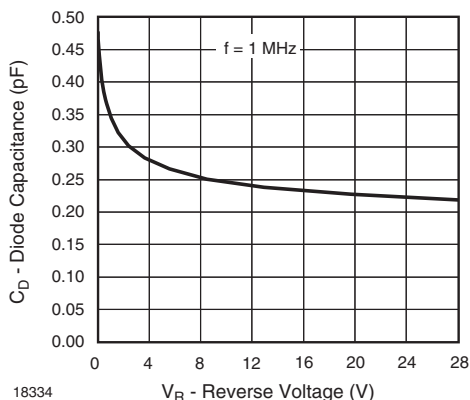


Fig. 2 - Diode Capacitance vs. Reverse Voltage

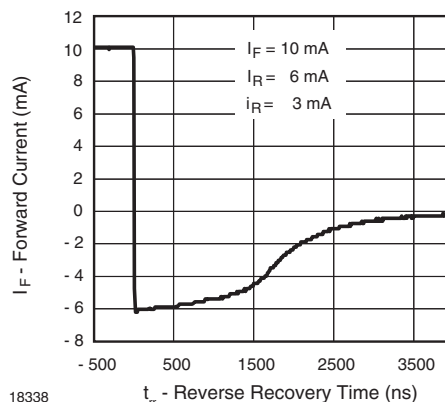


Fig. 4 - Typical Charge Recovery Curve

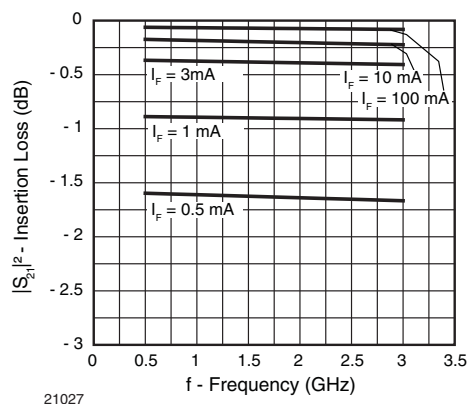


Fig. 5 - Insertion Loss of One Diode Inserted in Series with 50 Ω Strip Line

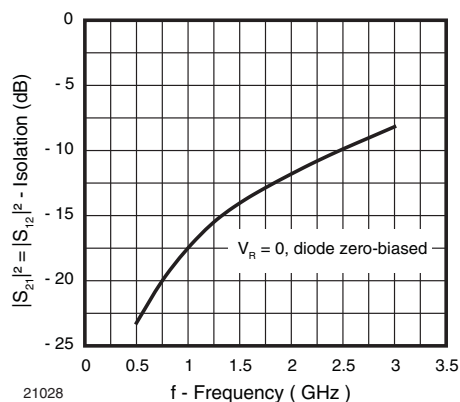


Fig. 6 - Isolation of One Diode Inserted in Series with 50 Ω Strip Line

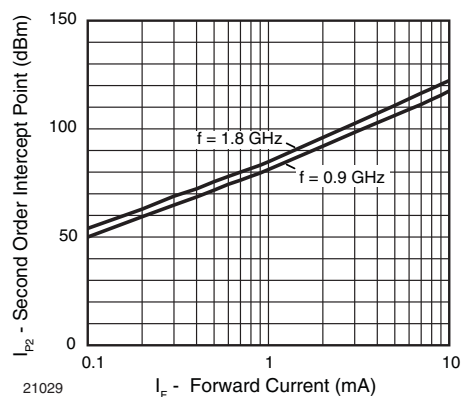
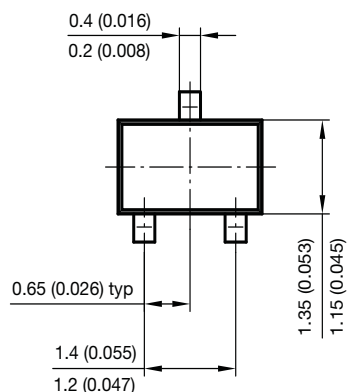
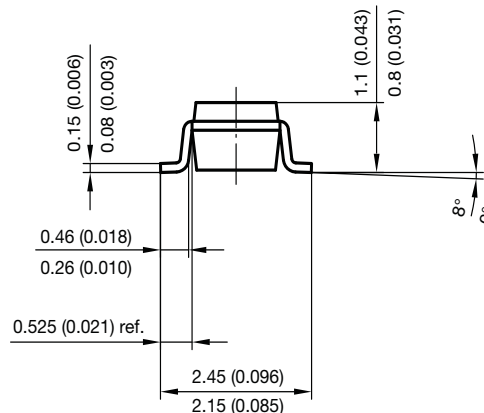
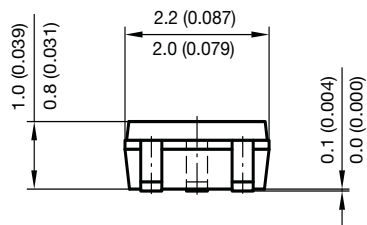


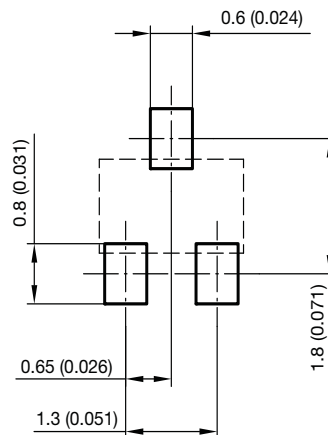
Fig. 7 - Second Order Intercept Point for One Diode Inserted in 50 Ω Strip Line



PACKAGE DIMENSIONS in millimeters (inches): **SOT-323**



foot print recommendation:



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