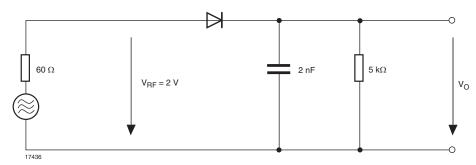


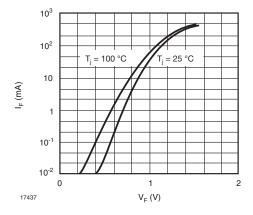
Vishay Semiconductors

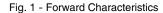
ELECTRICAL CHARACTERISTICS (T _{amb} = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	$I_F = 10 \text{ mA}$	V_{F}			1000	mV
	$I_F = 100 \text{ mA}$	V _F			1200	mV
Leakage current	V _R = 20 V	I _R			25	nA
	V _R = 75 V	I _R			5	μΑ
	V _R = 100 V	I _R			100	μΑ
	$V_R = 20 \text{ V}, T_J = 150 ^{\circ}\text{C}$	I _R			50	μA
Diode capacitance	$V_F = V_R = 0 V$	C _D			4	pF
Voltage rise when switching ON	Tested with 50 mA pulses, $t_p = 0.1 \mu s$, rise time < 30 ns, $f_p = (5 \text{ to } 100) \text{ kHz}$	V _{fr}			2.5	V
Reverse recovery time	I_F = 10 mA, i_R = 1 mA, V_R = 6 V, R_L = 100 Ω	t _{rr}			4	ns
Rectification efficiency	$f = 100 \text{ MHz}, V_{RF} = 2 \text{ V}$	ην	0.45			

RECTIFICATION EFFICIENCY MEASUREMENT CIRCUIT



TYPICAL CHARACTERISTICS (T_{amb} = 25 °C, unless otherwise specified)





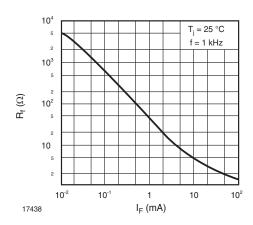


Fig. 2 - Dynamic Forward Resistance vs. Forward Current



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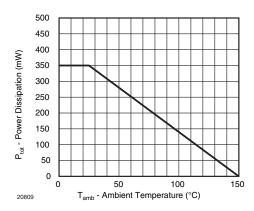


Fig. 3 - Admissible Power Dissipation vs. Ambient Temperature

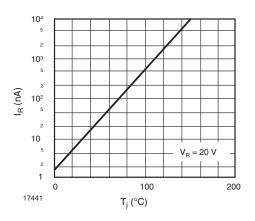


Fig. 5 - Leakage Current vs. Junction Temperature

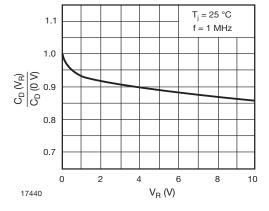


Fig. 4 - Relative Capacitance vs. Reverse Voltage

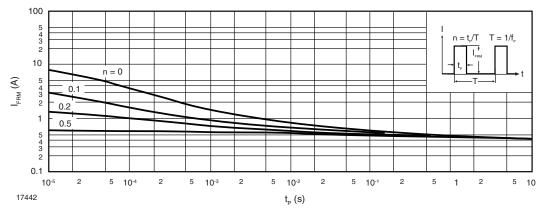
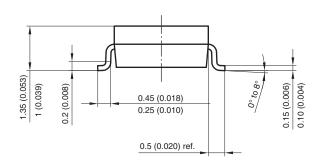


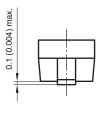
Fig. 6 - Admissible Repetitive Peak Forward Current vs. Pulse Duration



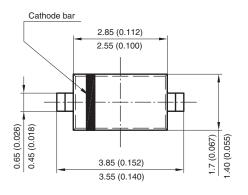
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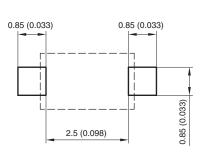
PACKAGE DIMENSIONS in millimeters (inches): SOD-123





Mounting Pad Layout





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Revision: 02-Oct-12 Document Number: 91000