

# Vishay Semiconductors

<b>ELECTRICAL CHARACTERISTICS</b> (T <sub>amb</sub> = 25 °C, unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Forward voltage	I <sub>F</sub> = 1 mA	$V_{F}$			715	mV
	I <sub>F</sub> = 10 mA	V <sub>F</sub>			855	mV
	I <sub>F</sub> = 50 mA	V <sub>F</sub>			1000	mV
	I <sub>F</sub> = 150 mA	V <sub>F</sub>			1250	mV
Reverse current	V <sub>R</sub> = 70 V	I <sub>R</sub>			2.5	μΑ
	V <sub>R</sub> = 70 V, T <sub>j</sub> = 150 °C	I <sub>R</sub>			100	μΑ
	V <sub>R</sub> = 25 V, T <sub>j</sub> = 150 °C	I <sub>R</sub>			30	μΑ
Diode capacitance	$V_F = V_R = 0 V, f = 1 MHz$	C <sub>D</sub>			2	pF
Reverse recovery time	$I_F$ = 10 mA to $i_R$ = 1 mA, $V_R$ = 6 V, $R_L$ = 100 $\Omega$	t <sub>rr</sub>			6	ns

### TYPICAL CHARACTERISTICS (T<sub>amb</sub> = 25 °C, unless otherwise specified)

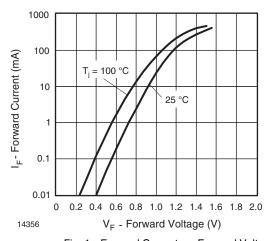


Fig. 1 - Forward Current vs. Forward Voltage

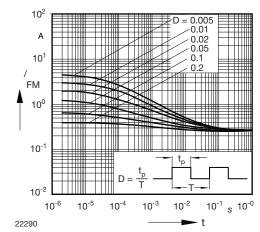
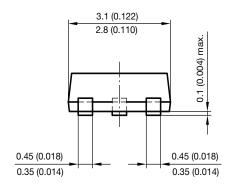


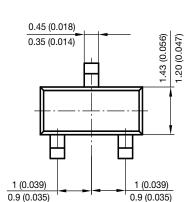
Fig. 2 - Peak Forward Current  $I_{FM} = f(t_p)$ 



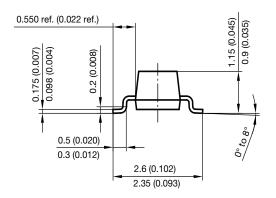
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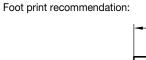
#### PACKAGE DIMENSIONS in millimeters (inches): SOT-23

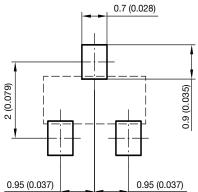




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Vishay

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