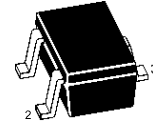
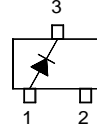


Silicon Epitaxial Planar Switching Diode

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance



Marking Code: **A6**
SOT-323 Plastic Package

Applications

- Ultra high speed switching application

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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Continuous Forward Current	I_F	155	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	t = 1 μ s 4.5	A
		t = 1 ms 1	
		t = 1 s 0.5	
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage	V_F	-	715	mV
at $I_F = 1\text{ mA}$			855	mV
at $I_F = 10\text{ mA}$			1	V
at $I_F = 150\text{ mA}$			1.25	V
Reverse Current	I_R	-	30	nA
at $V_R = 25\text{ V}$			1	μA
at $V_R = 75\text{ V}$			30	μA
at $V_R = 25\text{ V}, T_J = 150\text{ }^\circ\text{C}$			50	μA
at $V_R = 75\text{ V}, T_J = 150\text{ }^\circ\text{C}$				
Reverse Breakdown Voltage	$V_{(BR)R}$	75	-	V
Diode Capacitance	C_d	-	1.5	pF
Reverse Recovery Time	t_{rr}	-	4	ns
at $I_F = I_R = 10\text{ mA}, R_L = 50\text{ }\Omega$				

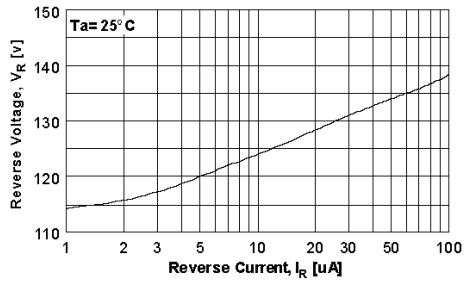


Figure 1. Reverse Voltage vs Reverse Current
BV - 1.0 to 100 μ A

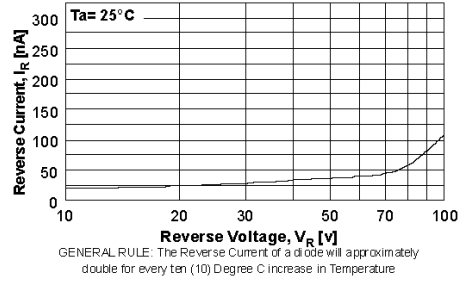


Figure 2. Reverse Current vs Reverse Voltage
IR - 10 to 100 V

GENERAL RULE: The Reverse Current of a diode will approximately double for every ten (10) Degree C increase in Temperature

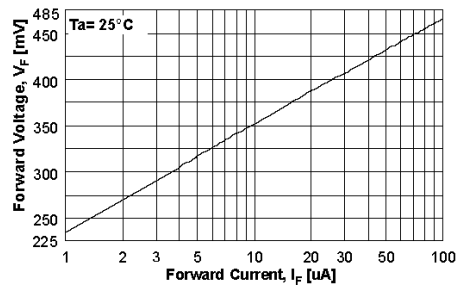


Figure 3. Forward Voltage vs Forward Current
VF - 1.0 to 100 μ A

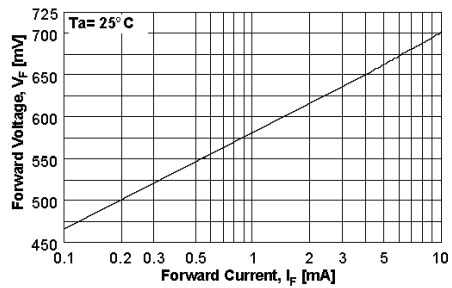


Figure 4. Forward Voltage vs Forward Current
VF - 0.1 to 10 mA

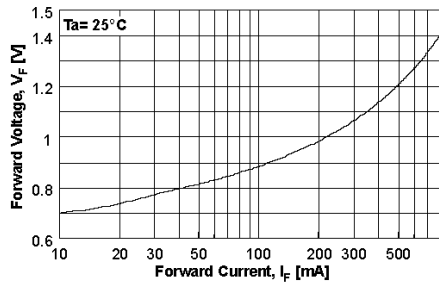


Figure 5. Forward Voltage vs Forward Current
VF - 10 - 800 mA

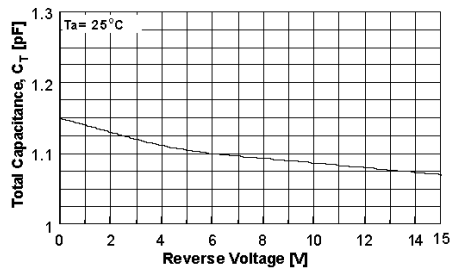


Figure 6. Total Capacitance

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-323

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