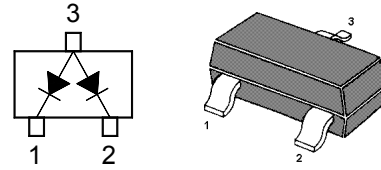


**Features**

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



Marking Code: A1  
TO-236 Plastic Package

**Applications**

- Ultra high speed switching application

**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	85	V
Continuous Reverse Voltage	V <sub>R</sub>	75	V
Forward Current (DC)	I <sub>F</sub>	Single Diode Loaded 215	mA
		Double Diode Loaded 125	
Repetitive Peak Forward Current	I <sub>FRM</sub>	450	mA
Non-repetitive Peak Forward Surge Current	I <sub>FSM</sub>	at t = 1 s 0.5	A
		at t = 1 ms 1	
		at t = 1 μs 4	
Power Dissipation	P <sub>tot</sub>	350	mW
Operating Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

**Characteristics at T<sub>a</sub> = 25°C**

Parameter	Symbol	Max.	Unit
Forward Voltage	V <sub>F</sub>	715	mV
at I <sub>F</sub> = 1 mA			
at I <sub>F</sub> = 10 mA			
at I <sub>F</sub> = 50 mA			
	V <sub>F</sub>	1	V
	V <sub>F</sub>	1.25	V
Reverse Current	I <sub>R</sub>	30	nA
at V <sub>R</sub> = 25 V			
at V <sub>R</sub> = 75 V			
at V <sub>R</sub> = 25 V, T <sub>J</sub> = 150°C			
	I <sub>R</sub>	1	μA
	I <sub>R</sub>	30	μA
	I <sub>R</sub>	50	μA
Diode Capacitance	C <sub>d</sub>	2	pF
Reverse Recovery Time	t <sub>rr</sub>	4	ns
at I <sub>F</sub> = 10 mA, V <sub>R</sub> = 6 V, I <sub>rr</sub> = 1 mA, R <sub>L</sub> = 100 Ω			

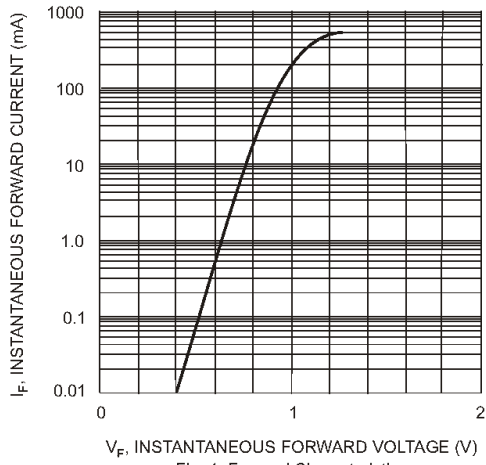


Fig. 1 Forward Characteristics

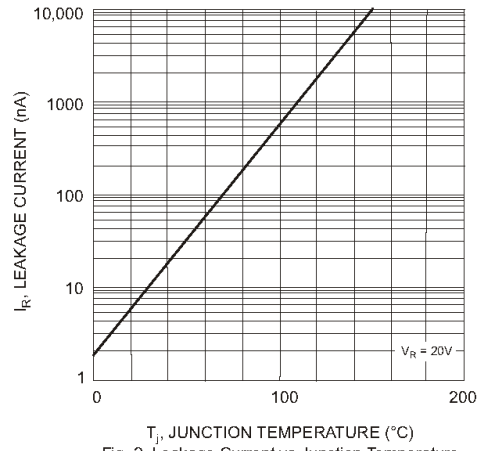


Fig. 2 Leakage Current vs Junction Temperature

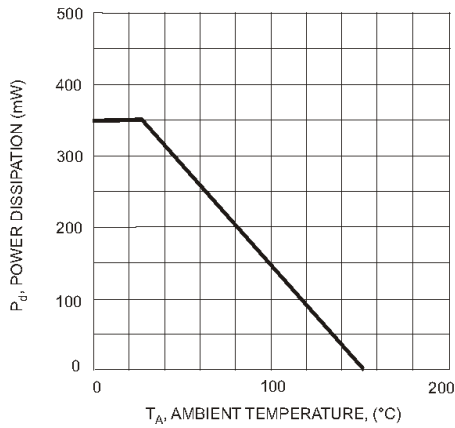


Fig. 3 Power Derating Curve, total package