

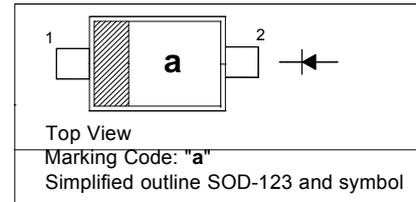
### High Voltage Switching Diode

#### Applications

- high speed switching
- high voltage switching

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



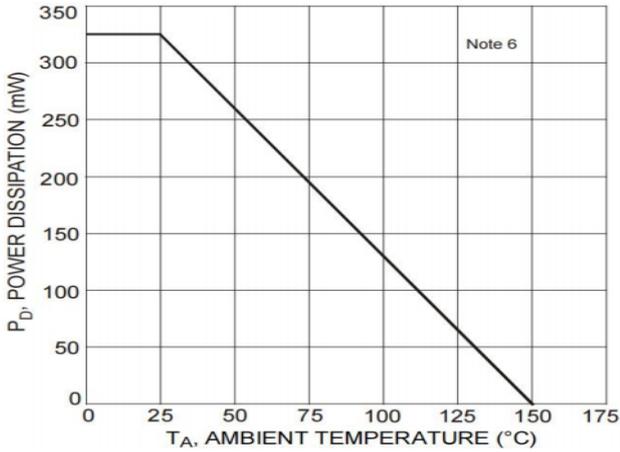
#### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	300	V
Reverse Voltage	$V_R$	300	V
Continuous Forward Current	$I_F$	225	mA
Repetitive Peak Forward Current	$I_{FRM}$	625	mA
Non-Repetitive Peak Forward Current (1 $\mu\text{s}$ )	$I_{FSM}$	4	A
Power Dissipation	$P_{tot}$	325	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 150	$^\circ\text{C}$

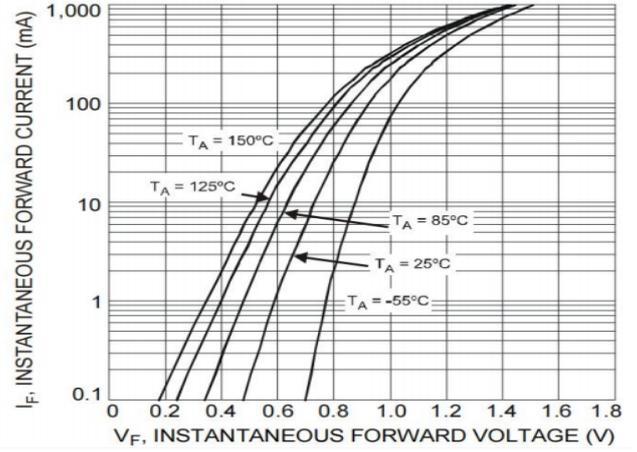
#### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F = 100\text{ mA}$	$V_F$	-	1.1	V
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	300	-	V
Reverse Current at $V_R = 250\text{ V}$	$I_R$	-	150	nA
Reverse Recovery Time at $I_F = I_R = 30\text{ mA}$ , $R_L = 100\text{ }\Omega$ , $i_{tr} = 0.1 I_R$	$t_{rr}$	-	50	ns
Total Capacitance at $V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	-	5	pF

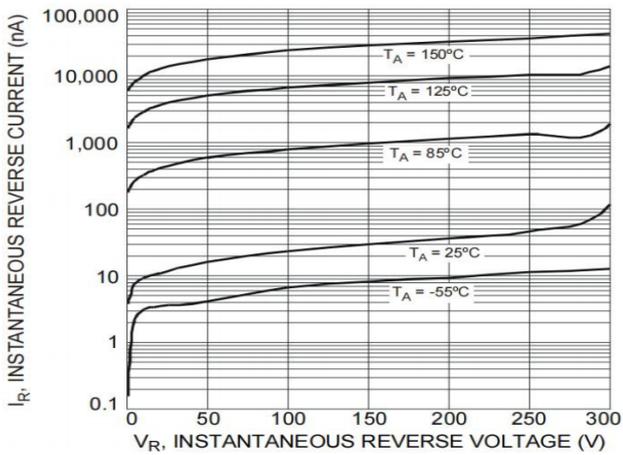
**Figure 1: Power Derating Curve**



**Figure 2: Forward Capacitance**



**Figure 3: Typical Reverse Characteristics**



**Figure 4: Total Capacitance vs. Reverse Voltage**

