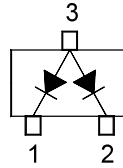
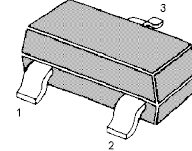


Features

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



Marking Code: **A1**



SOT-23 Plastic Package

Applications

- Ultra high speed switching application

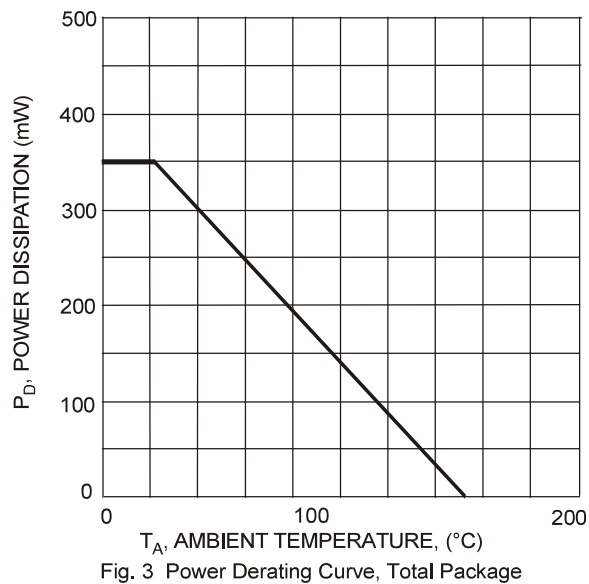
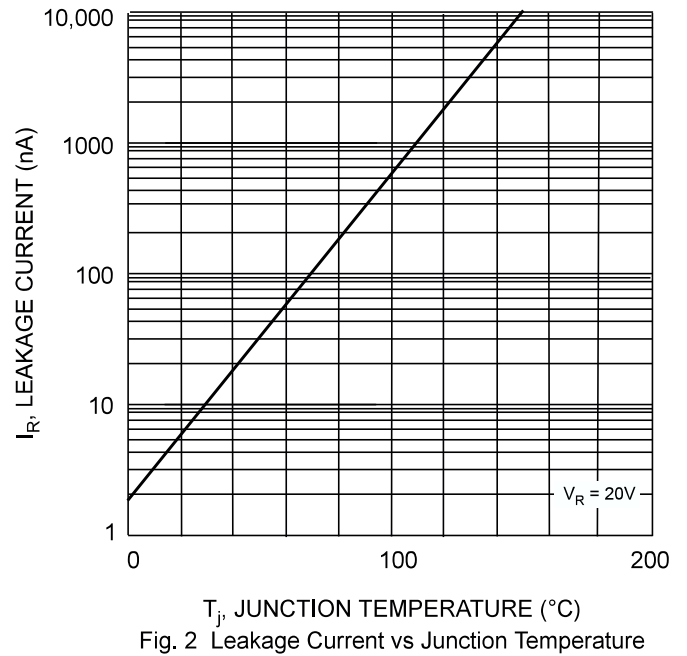
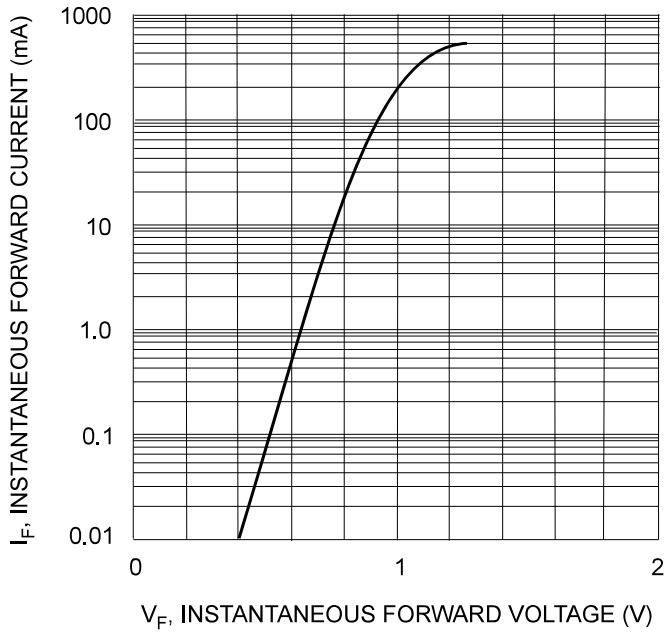
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Forward Current (DC)	I_F	215	mA
Single Diode Loaded		125	
Double Diode Loaded			
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	0.5	A
at $t = 1$ s		1	
at $t = 1$ ms		4	
at $t = 1$ μ s			
Power Dissipation	P_{tot}	350	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	357	$^\circ\text{C/W}$
Operating Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Forward Voltage			
at $I_F = 1$ mA	V_F	715	mV
at $I_F = 10$ mA	V_F	855	mV
at $I_F = 50$ mA	V_F	1	V
at $I_F = 150$ mA	V_F	1.25	V
Reverse Current			
at $V_R = 25$ V	I_R	30	nA
at $V_R = 75$ V	I_R	1	μ A
at $V_R = 25$ V, $T_J = 150^\circ\text{C}$	I_R	30	μ A
at $V_R = 75$ V, $T_J = 150^\circ\text{C}$	I_R	50	μ A
Diode Capacitance	C_d	2	pF
at $V_R = 0$, $f = 1$ MHz			
Reverse Recovery Time	t_{rr}	4	ns
at $I_F = I_R = 10$ mA, $R_L = 100\ \Omega$			

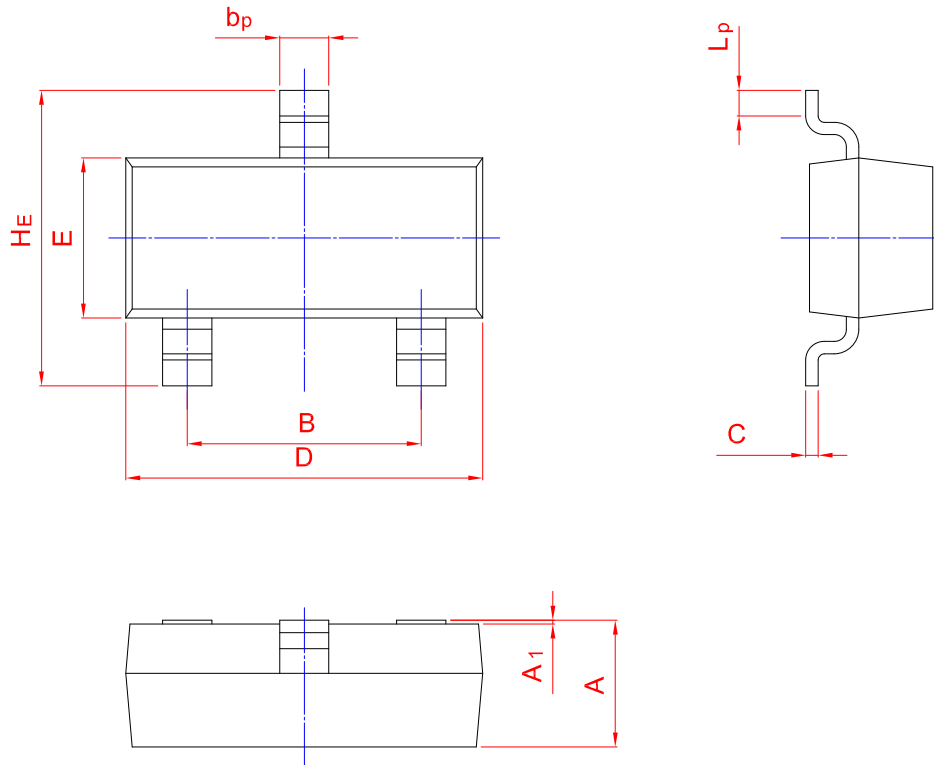
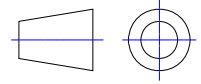
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	bp	C	D	E	HE	A1	Lp
mm	1.40 0.95	2.04 1.78	0.50 0.35	0.19 0.08	3.10 2.70	1.65 1.20	3.00 2.20	0.100 0.013	0.50 0.20

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