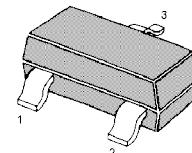
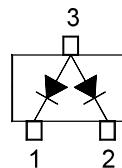


Features

- 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

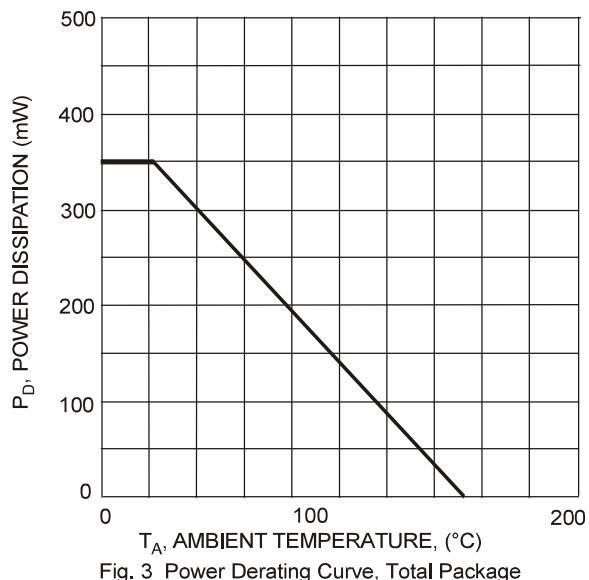
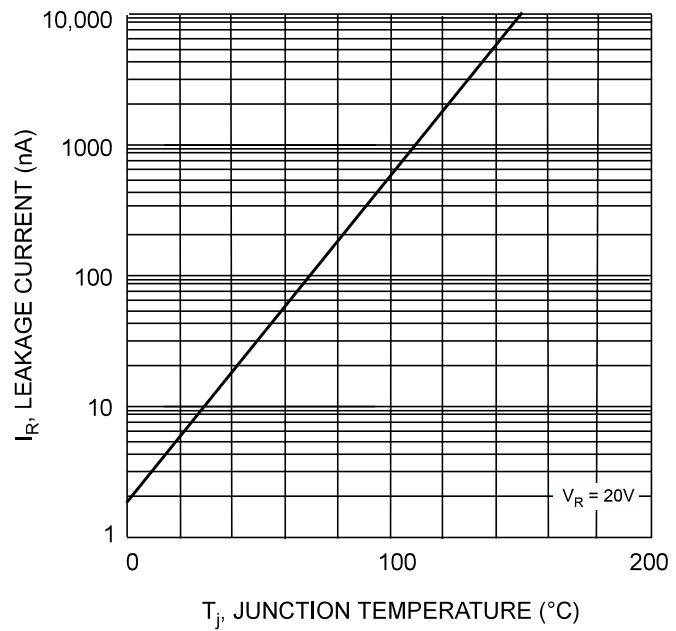
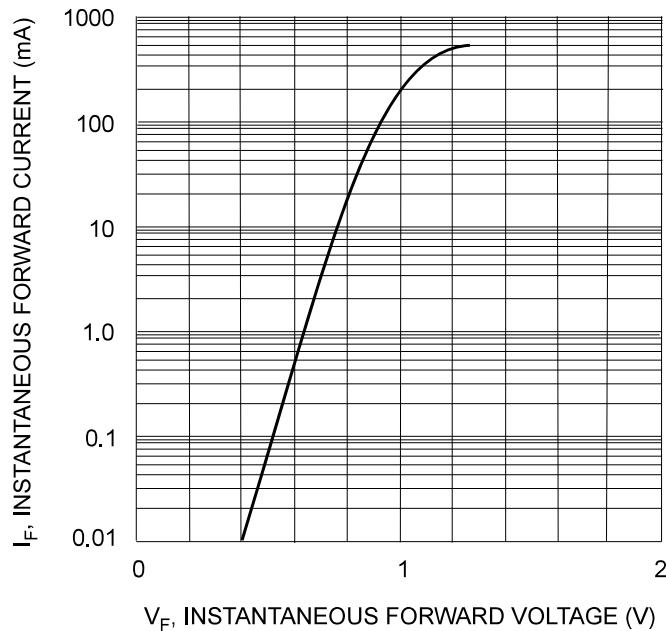
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

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

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

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

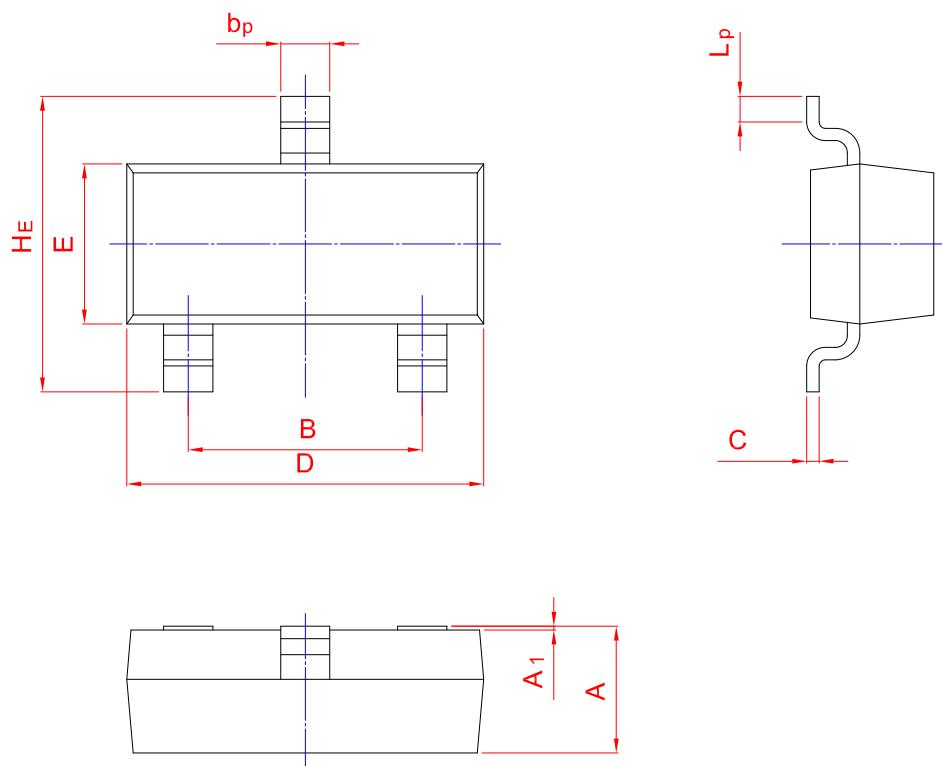
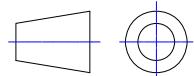
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



UNIT	A	B	b _p	C	D	E	H _E	A ₁	L _p
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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