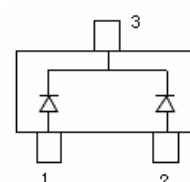
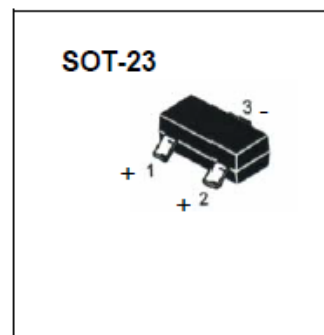


SWITCHING DIODE

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



Marking: JA

Maximum Ratings @T_A=25°C

Parameter	Symbol	Value	Unit
Non-Repetitive Peak reverse voltage DC Blocking Voltage	V_{RM} V_R	50	V
Average Rectified Output Current	I_O	200	mA
Power Dissipation	P_D	225	mW
Thermal Resistance. Junction to Ambient Air	$R_{\theta JA}$	556	°C/W
Junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 5\mu A$	50		V
Reverse voltage leakage current	I_R	$V_R = 50V$		0.1	μA
Forward voltage	V_F	$I_F = 100mA$		1	V
Diode Capacitance	C_D	$V_R = 0, f = 1MHz$		2	pF
Reveres recovery time	t_{rr}	$I_F = I_R = 10mA, R_L = 100\Omega,$ $I_{rr} = 0.1 \times I_R$		4	nS

Typical Characteristics

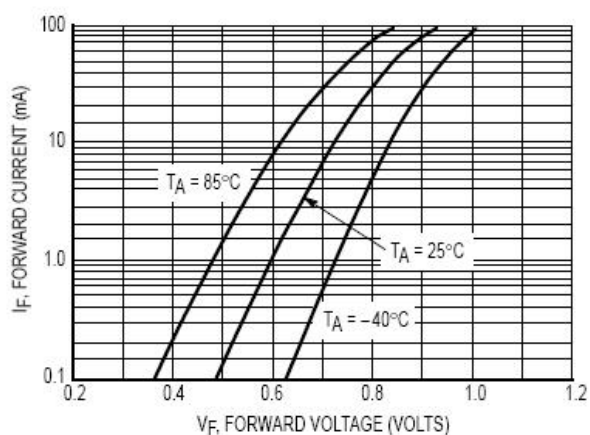


Figure 1. Forward Voltage

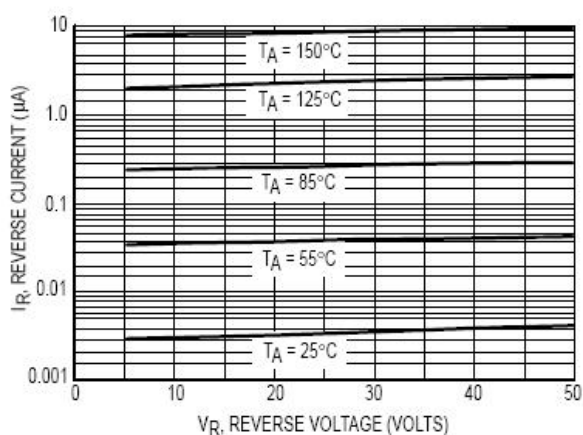


Figure 2. Leakage Current

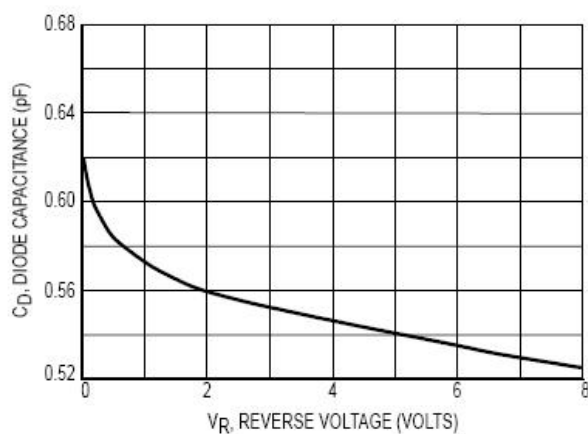
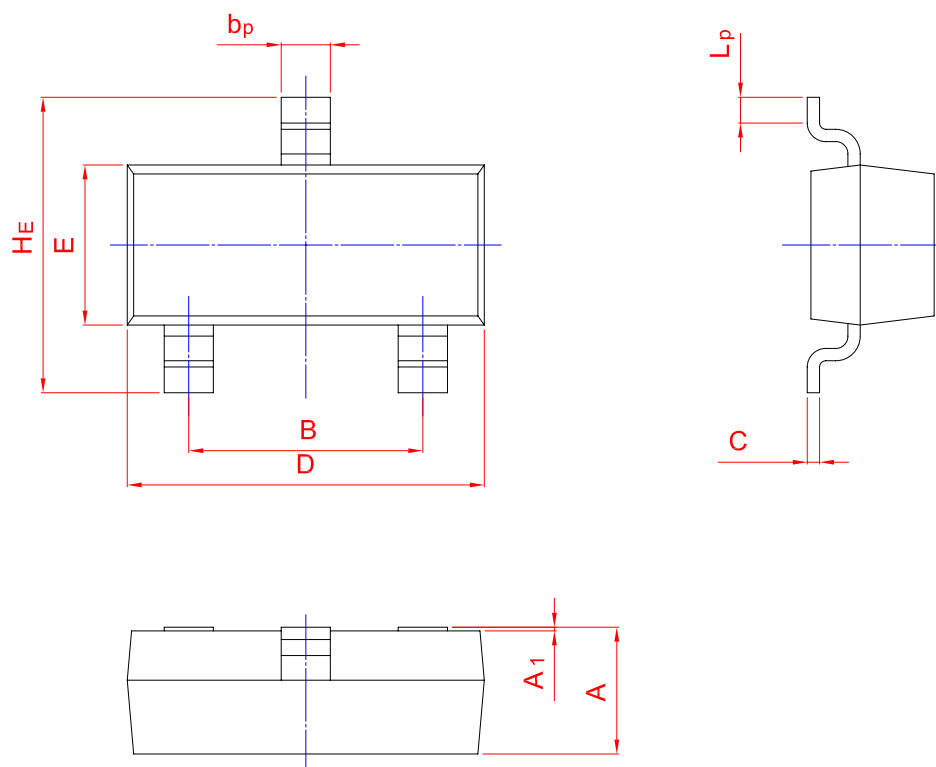


Figure 3. Capacitance

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