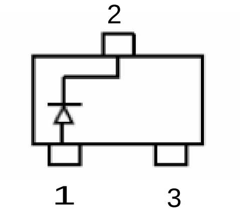
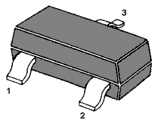
1SS294 ***SCHOTTKY DIODES***





SOT-23

FEATURES

Extremely Fast Switching Speed

Marking : A9

Maximum Ratings @T_A=25℃

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage **Working Peak Reverse Voltage**	V_{RRM} V_{RWM} V_R	40	V
Forward Continuous Current	I_{FM}	100	mA
Power Dissipation	P_D	200	mW
Storage temperature	T_{STG}	-55-150	℃

Electrical Characteristics @T_A=25℃

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	$V_{(BR)R}$	40			V	IR=100μA
Forward voltage	V_F			0.32	V	I_F=1mA
	V_F			0.5	V	I_F=10mA
	V_F			0.6	V	I_F=100mA
Reverse current	I_R			5	μA	V_R=40V
Diode Capacitance	C_D			25	pF	V_R=1V,f=1MHz
Reverse Recovery Time	t_{rr}			5	nS	I_F=I_R=10mA Irr=0.1XI_R,R_L=100Ω

Typical Characteristics

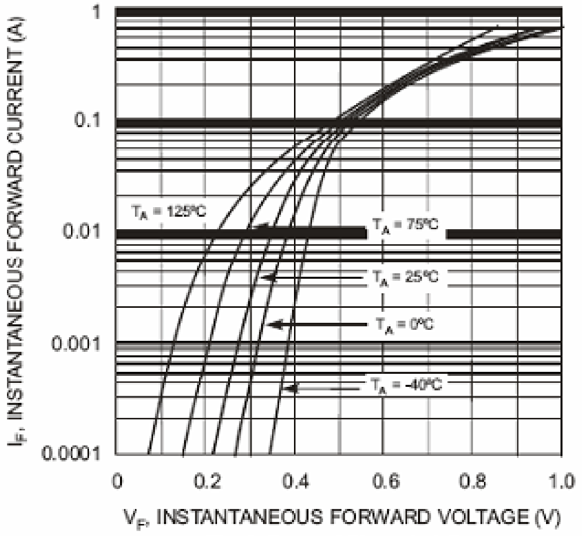


Fig. 1 Forward Characteristics

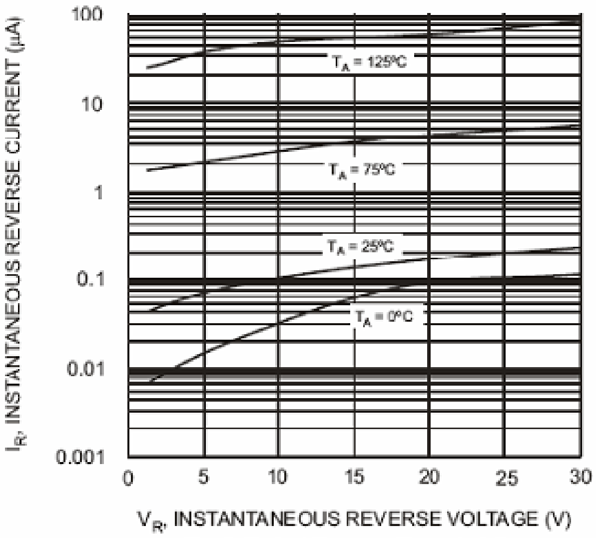


Fig. 2 Typical Reverse Characteristics

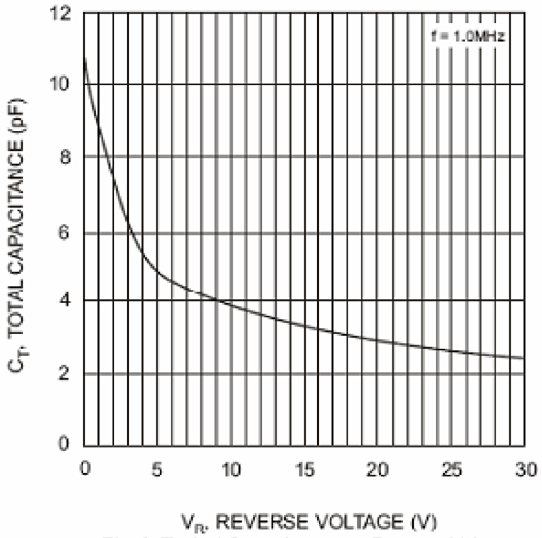


Fig. 3 Typical Capacitance vs. Reverse Voltage

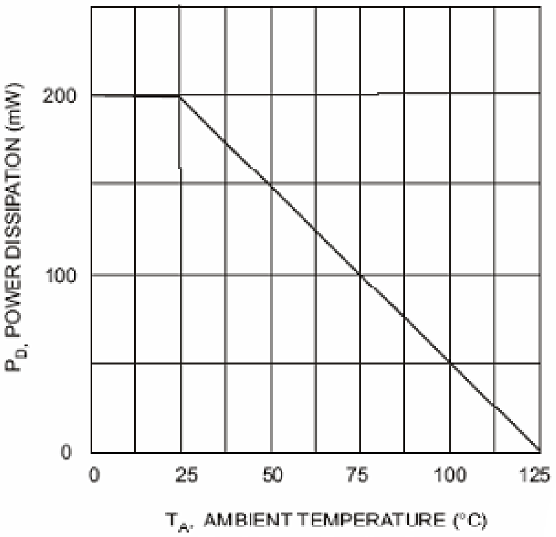
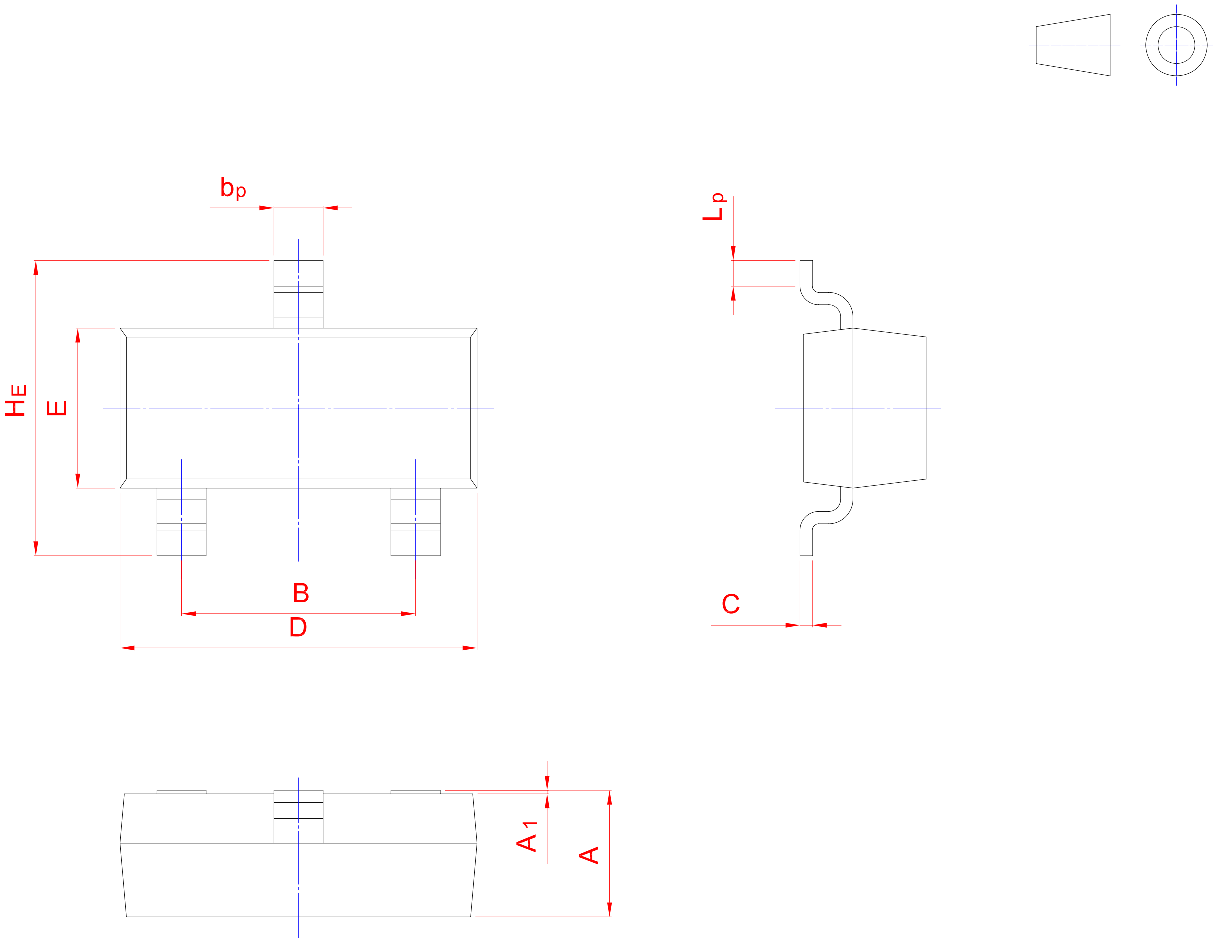


Fig. 4 Power Derating Curve

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