

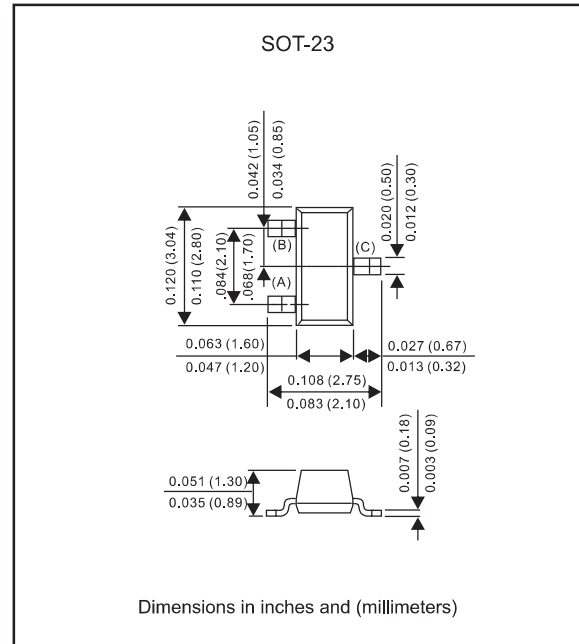
FEATURES

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

Mechanical data

- Epoxy: UL94-V0 rated flame retardant
- Case : Molded plastic, SOT-23
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Mounting Position : Any

Package Outline



Maximum Ratings @Ta=25°C

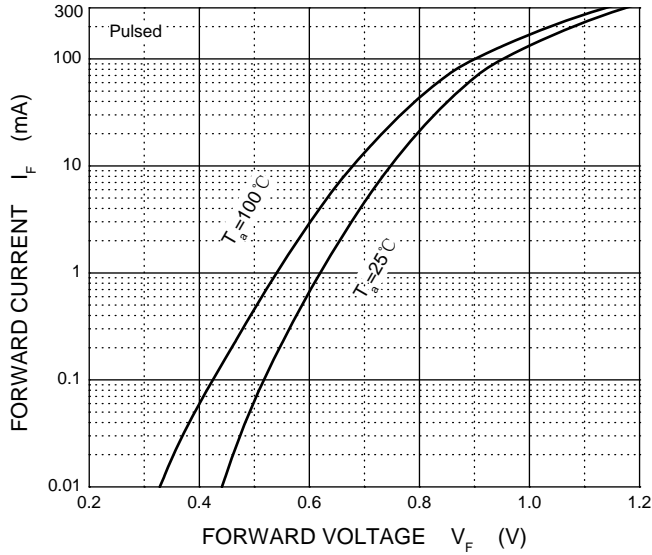
Parameter	Symbol	Limit	Unit
Repetitive peak reverse voltage	V_{RRM}	250	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
Forward continuous current	I_{FM}	400	mA
Average rectified output current	I_O	225	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	1.7	A
Power dissipation	P_D	350	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	357	°C/W
Junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

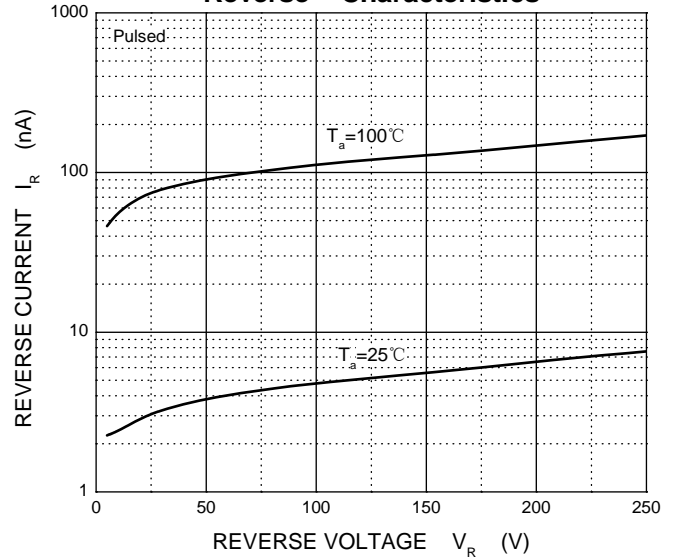
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	$I_R = 100\mu A$	250		V
Reverse voltage leakage current	I_R	$V_R = 200V$		0.1	μA
Forward voltage	V_F	$I_F = 100mA$ $I_F = 200mA$		1000 1250	mV
Diode capacitance	C_D	$V_R = 0V, f = 1MHz$		5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 30mA, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$		50	ns

Rating and characteristic curves (BAV23A/C/S)

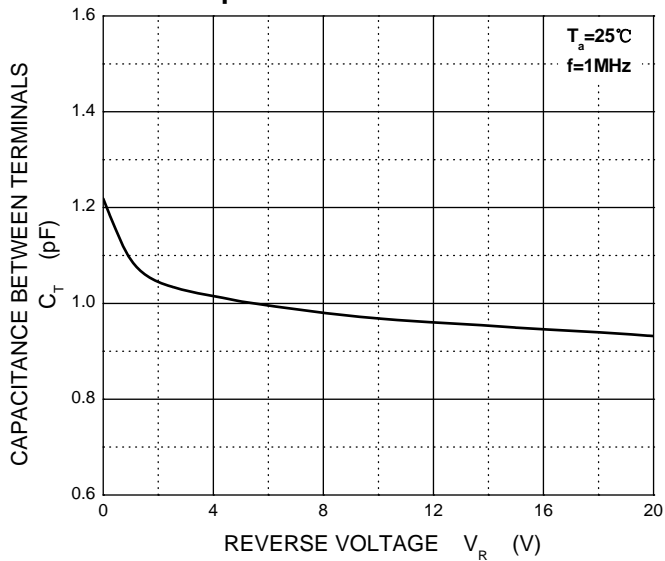
Forward Characteristics



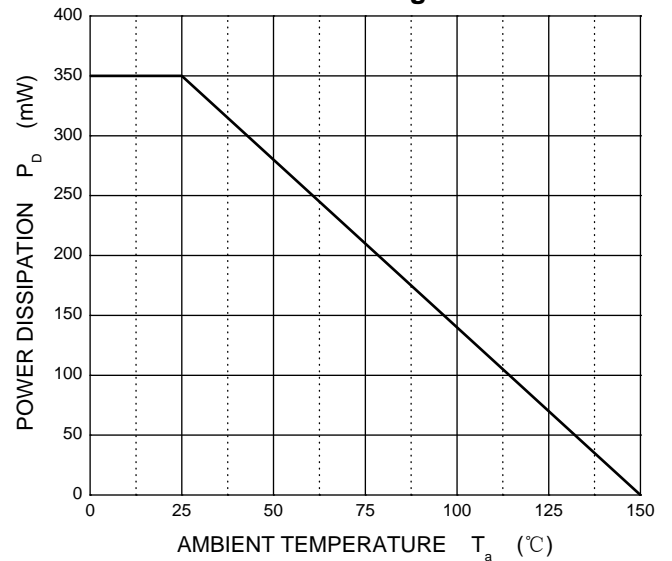
Reverse Characteristics



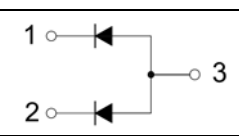
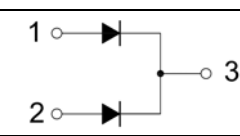
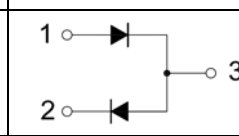
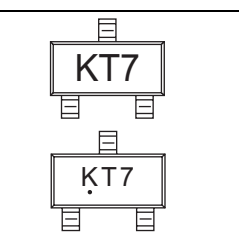
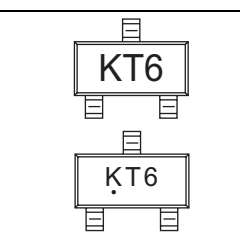
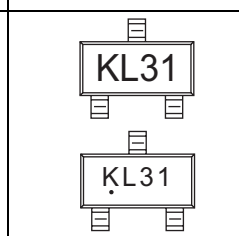
Capacitance Characteristics



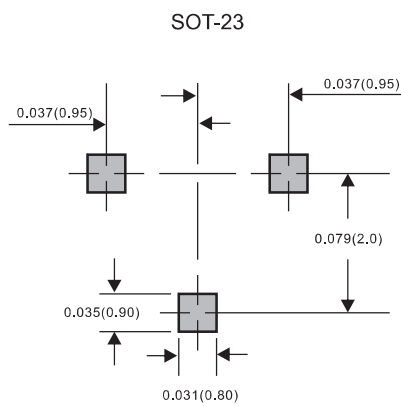
Power Derating Curve



Pinning information

BAV23A	BAV23C	BAV23S
		
MARKING: KT7	MARKING: KT6	MARKING: KL31
		

Suggested solder pad layout



Dimensions in inches and (millimeters)