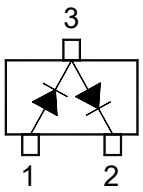
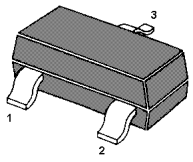
Silicon Epitaxial Planar Switching Diode

Features

- AEC-Q101 Qualified
- Halogen and Antimony Free(HAF), RoHS compliant





SOT-23 Plastic Package
1. Anode 2. Cathode 3. Anode / Cathode

Application

- For general switching of audio machine,VCR.

Absolute Maximum Ratings (T_a = 25℃)

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	35	V
DC Reverse Voltage	V_R	30	V
Average Rectified Forward Current	$I_{F(AV)}$	100	mA
Maximum Forward Current	I_{FM}	300	mA
Non-repetitive Peak Forward Surge Current at t = 1 μs	I_{FSM}	4	A
Power Dissipation [1)]	P_D	200	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	- 55 to + 150	℃

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance from Junction to Ambient [1)]	$R_{\theta JA}$	625	℃/W

[1)] Device mounted on FR-4 PCB with minimum recommended pad layout.

Characteristics at T_a = 25℃

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I_R = 100 µA	$V_{(BR)R}$	30	-	V
Forward Voltage at I_F = 10 mA at I_F = 50 mA at I_F = 100 mA	V_F	- - -	1 1.2 1.4	V
Reverse Current at V_R = 30 V	I_R	-	0.1	µA
Total Capacitance at V_R = 0 V, f = 1 MHz	C_{tot}	-	6	pF

Electrical Characteristics Curves

Fig. 1 Power Derating Curve

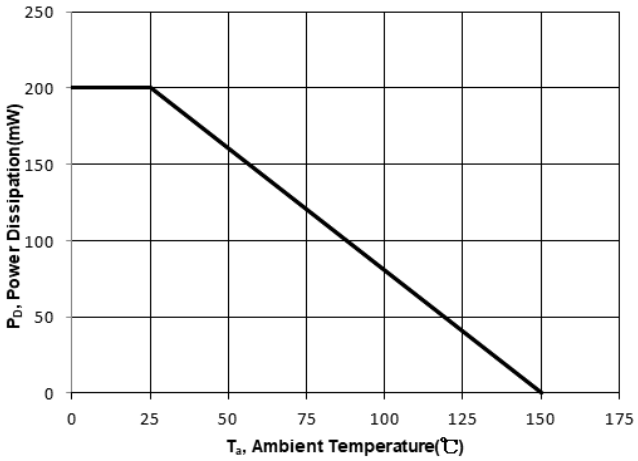


Fig. 2 Capacitance Characteristics

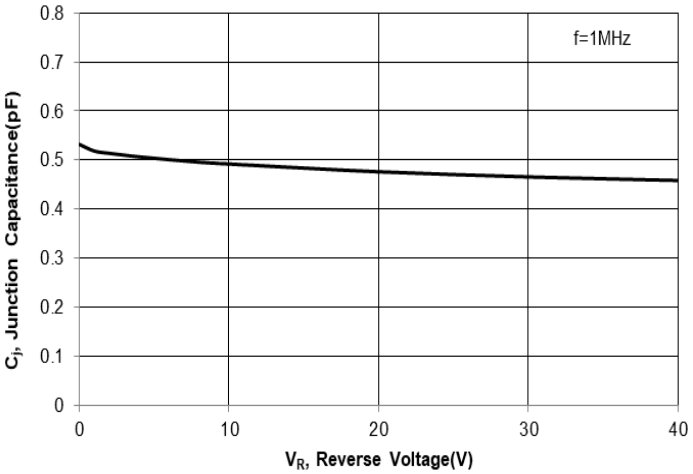


Fig. 3 Reverse Characteristics

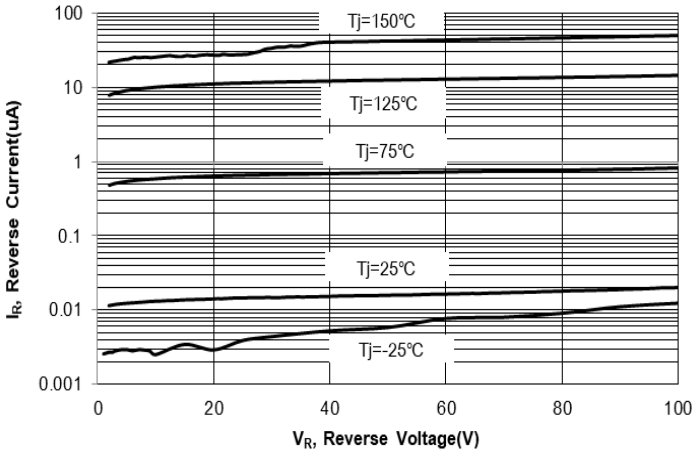
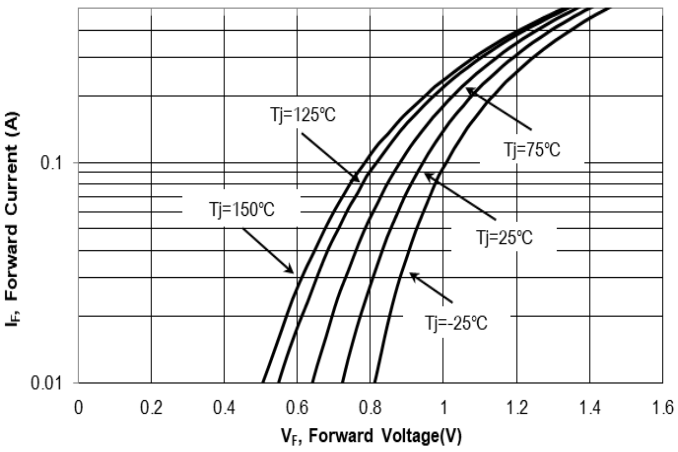
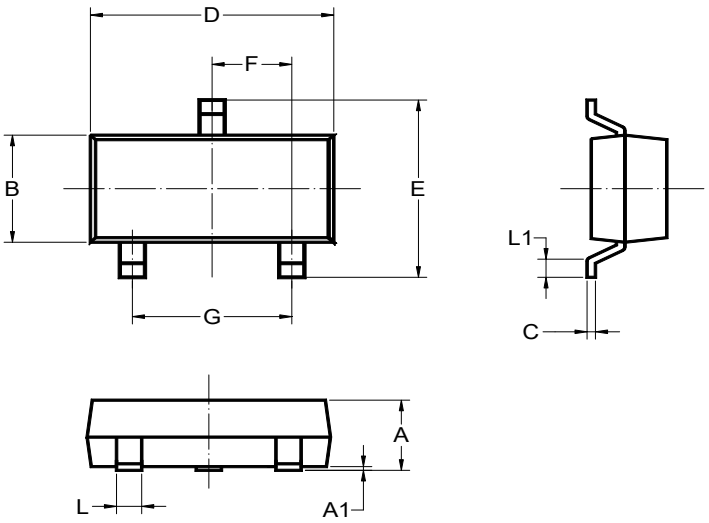


Fig. 4 Forward Characteristics

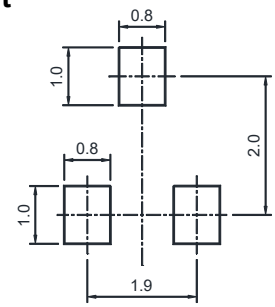


Package Outline (Dimensions in mm) SOT-23



Unit	A	A1	B	C	D	E	F	G	L	L1
mm	1.20 0.89	0.100 0.013	1.40 1.20	0.19 0.08	3.04 2.80	2.6 2.2	1.02 0.89	2.04 1.78	0.51 0.37	0.2 MIN

Recommended Soldering Footprint

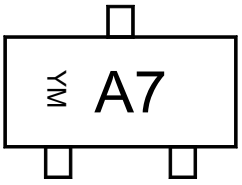


Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-23	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

" A7 " = Part No.
" YM " = Date Code Marking
" Y " = Year
" M " = Month
Font type: Arial



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