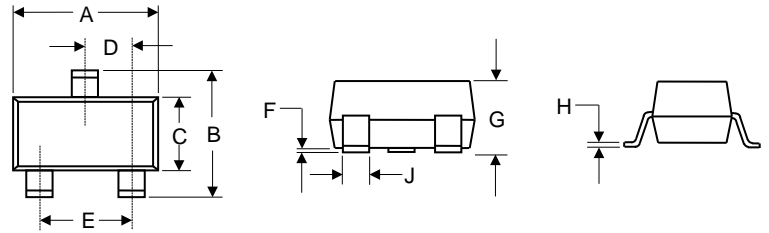


Features

- * Small package
- * Low forward voltage
- * Fast reverse recovery time
- * Small total capacitance
- * Ultra high speed switching application
- * Marking Code: A4



RoHS
COMPLIANT



SOT-23				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.110	0.120	2.80	3.04
B	0.087	0.102	2.20	2.60
C	0.047	0.055	1.20	1.40
D	0.035	0.04	0.89	1.02
E	0.070	0.080	1.78	2.04
F	---	0.004	---	0.10
G	0.035	0.047	0.89	1.20
H	0.003	0.008	0.08	0.19
J	0.015	0.02	0.37	0.51

Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Maximum Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Forward Current	I_o	200	mA
Maximum Peak Forward Current	I_{FM}	300	mA
Non-Repetitive Peak Forward Surge Current at t = 1 s at t = 1 μs	I_{FSM}	1 2	A
Power Dissipation	P_d	350	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 1 mA at I _F = 10 mA at I _F = 50 mA at I _F = 150 mA	V _F	- - - -	715 855 1 1.25	mV mV V V
Reverse Current at V _R = 20 V at V _R = 75 V at V _R = 25 V, T _J = 150 °C at V _R = 75 V, T _J = 150 °C	I _R	- - - -	25 2.5 30 50	nA μA μA μA
Reverse Breakdown Voltage at I _R = 100 μA	V _{(BR)R}	75	-	V
Total Capacitance at V _R = 0, f = 1 MHz	C _T	-	2	pF
Reverse Recovery Time at I _F = I _R = 10 mA to I _{rr} = 1 mA, R _L = 50 Ω	t _{rr}	-	4	ns

Ratings and Characteristic Curves

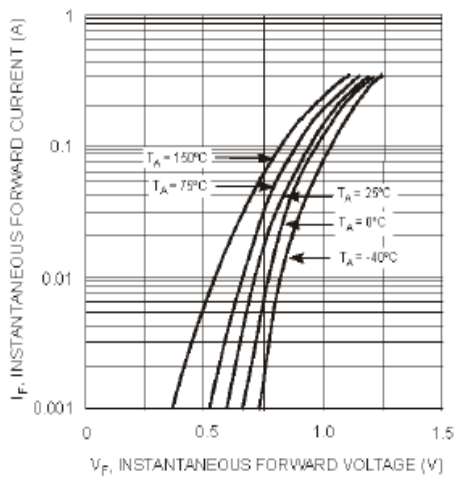


Fig. 1 Forward Characteristics

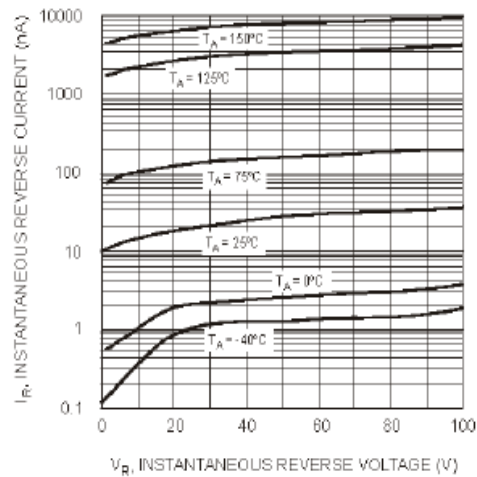


Fig. 2 Typical Reverse Characteristics

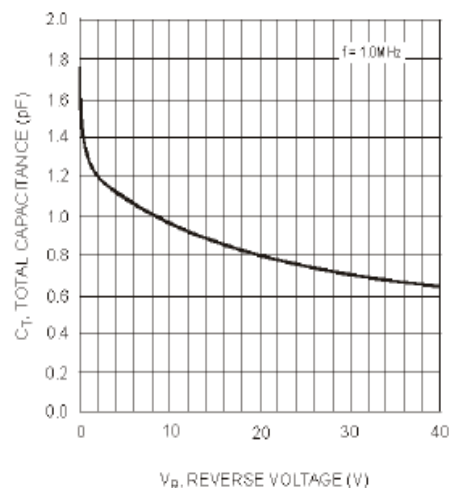


Fig. 3 Typical Capacitance vs. Reverse Voltage

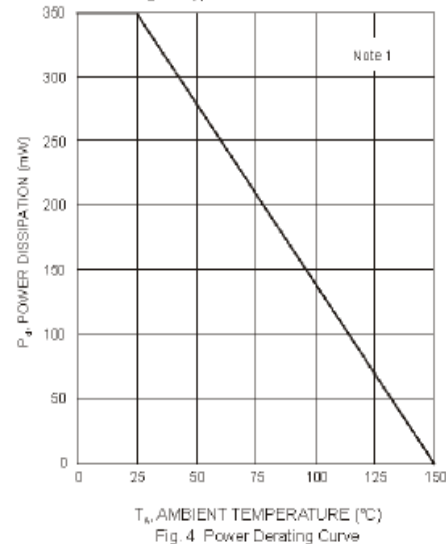


Fig. 4 Power Derating Curve



BAV70

Silicon Epitaxial Planar Switching Diode

Ordering Information

Part No.	Package	Packing Code	Packing
BAV70	SOT-23	R30	3000pcs/Reel

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