

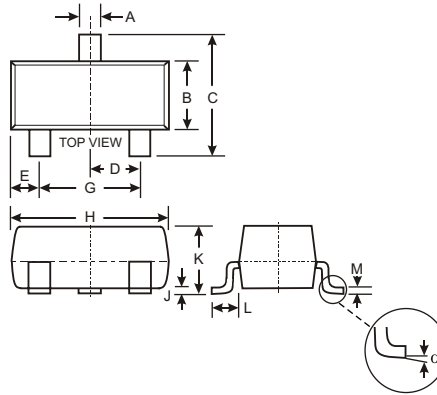


Features

- For high-speed switching application.
- Common cathode.

Mechanical Data

- Case: SOT-23
- Weight: 0.008 grams (approximate)
- Marking: JA



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

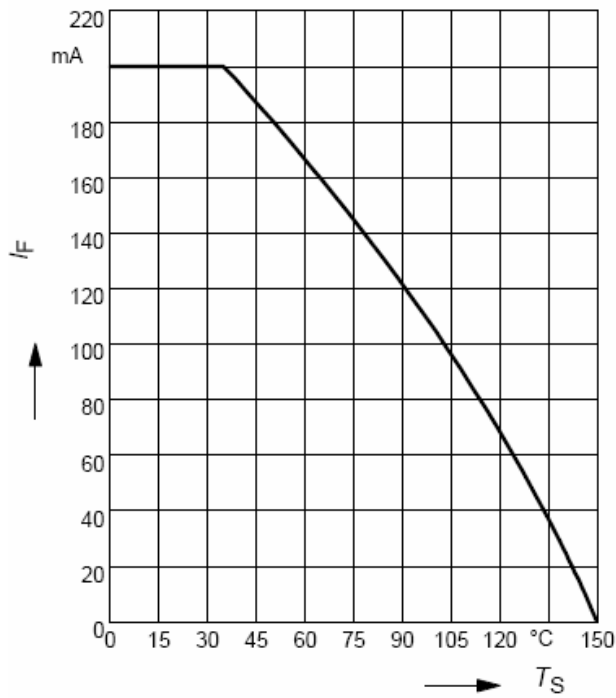
Parameter	Symbol	Limits	Unit
Diode reverse voltage	V_R	50	V
Peak Reverse Voltage	V_{RM}	50	V
Forward Current	I_F	200	mA
Surge forward current, $t=1\mu\text{s}$	I_{FS}	4.5	A
Total Power Dissipation $T_s=35^\circ\text{C}$	P_{tot}	250	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-65-+150	$^\circ\text{C}$

Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

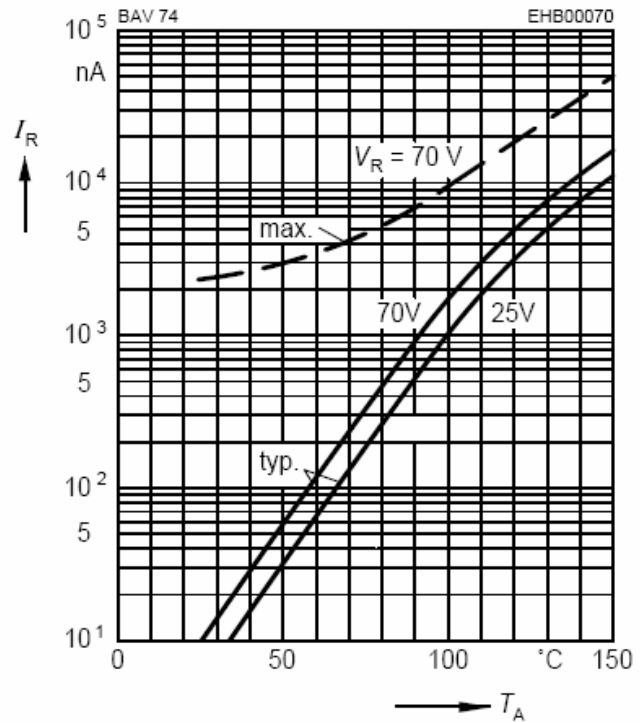
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 100\mu\text{A}$	50		V
Reverse voltage leakage current	I_R	$V_R = 50\text{V}$ $V_R = 50\text{V } T_A = 150^\circ\text{C}$		0.1 100	μA
Forward voltage	V_F	$I_F = 100\text{mA}$		1	V
Diode capacitance	C_D	$V_R = 0\text{V } f = 1\text{MHz}$		2.0	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10\text{mA}$ $I_R = 1\text{mA } R_L = 100\Omega$		4	nS

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Forward current $I_F = f(T_S)$

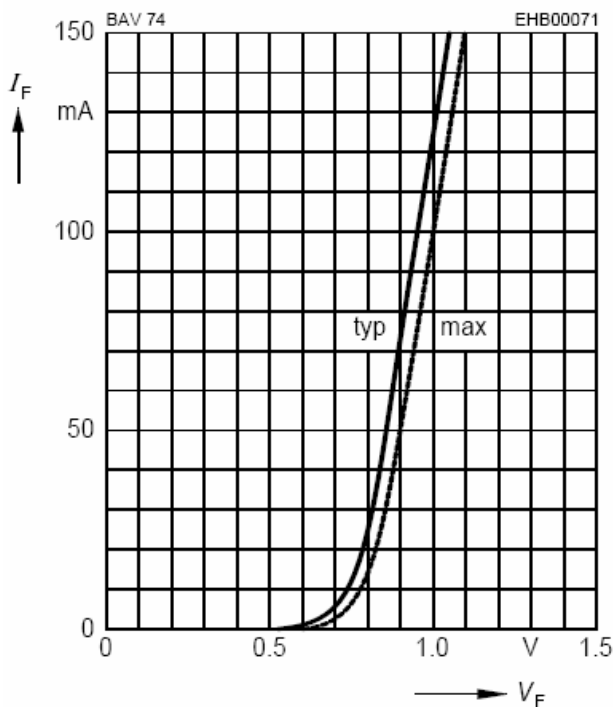


Reverse current $I_R = f(T_A)$



Forward current $I_F = f(V_F)$

$T_A = 25^\circ\text{C}$



Peak forward current $I_{FM} = f(t_p)$

$T_A = 25^\circ\text{C}$

