



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



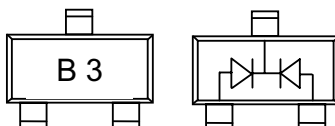
Micro Commercial Components
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CA 91311
Phone: (818) 701-4933
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1SS184

Features

- Halogen free available upon request by adding suffix "-HF"
- Low Forward Voltage
- Low Leakage Current
- Surface Mount SOT-23 Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Pin Configuration Top View



Maximum Ratings

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
Reverse Voltage	V_R	80	V
Average Rectified Output Current	I_O	100	mA
Forward Continuous Current	I_{FM}	300	mA
Power Dissipation @ $T_A=25^\circ\text{C}$	P_D	150	mW
Storage Temperature Range	T_{stg}	-55 to +125	$^\circ\text{C}$
Junction Temperature	T_j	125	$^\circ\text{C}$

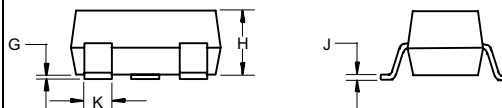
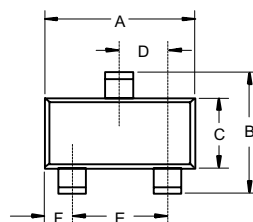
Electrical Characteristics @ 25 $^\circ\text{C}$ Unless Otherwise Specified

Parameter	Symbol	Min.	Typ.	Max.	Unit
Minimum Reverse Breakdown Voltage ($I_R=100\mu\text{A}$)	$V_{(BR)}$	80	---	---	V
Maximum Forward Voltage ($I_F = 1\text{mA}$)	V_F	---	0.60	---	V
($I_F = 10\text{mA}$)		---	0.72	---	
($I_F = 100\text{mA}$)		---	0.90	1.2	
Maximum Reverse Voltage Leakage Current ($V_R=30\text{V}$)	I_R	---	---	0.1	μA
($V_R=80\text{V}$)		---	---	0.5	
Capacitance between Terminals*	C_T	---	0.9	3.0	pF
Maximum Reverse Recovery Time ($I_F = I_R=10\text{mA}$, $I_{rr}=0.1 \times I_R$)	t_{rr}	---	1.6	4.0	ns

* Measured at $f=1.0\text{MHz}$, $V_R=0$

150mW High Speed Switching Diodes 80 Volt

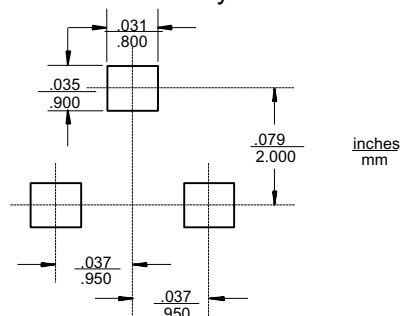
SOT-23

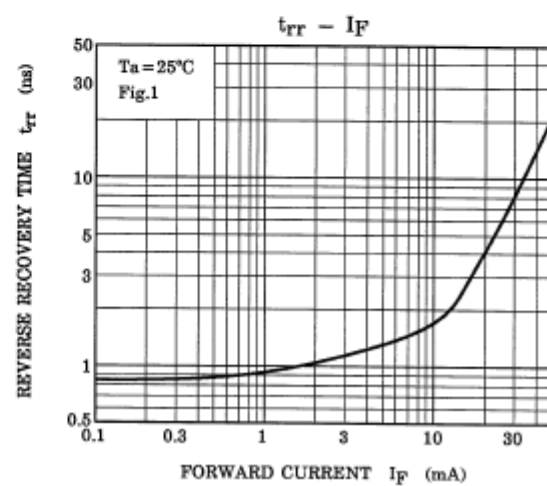
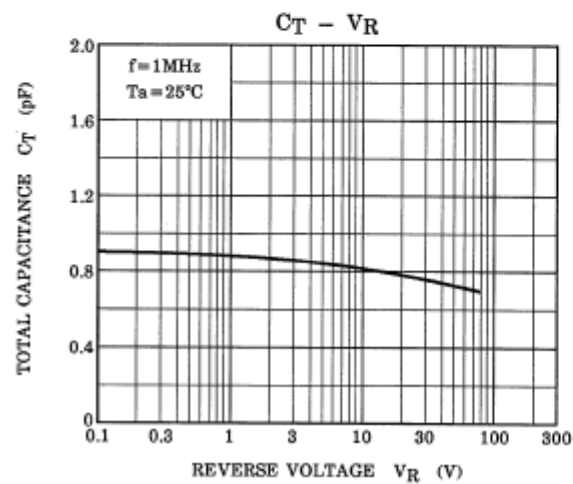
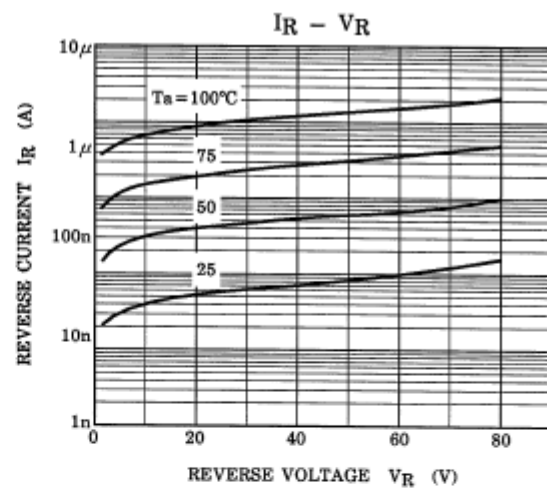
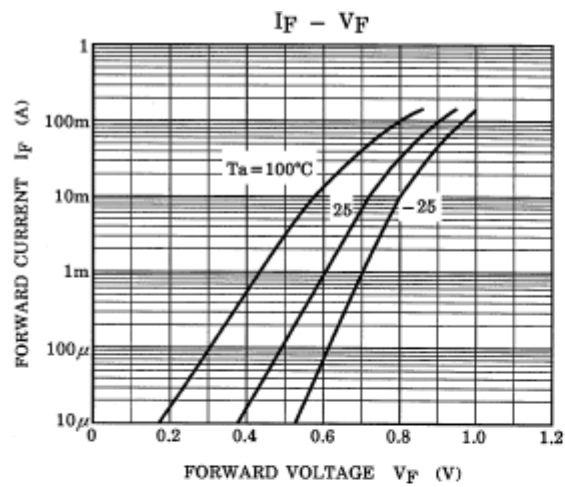


DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.110	.120	2.80	3.04	
B	.083	.104	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout





Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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