



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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BAS16V

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Lead Free Plating
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

Maximum Ratings

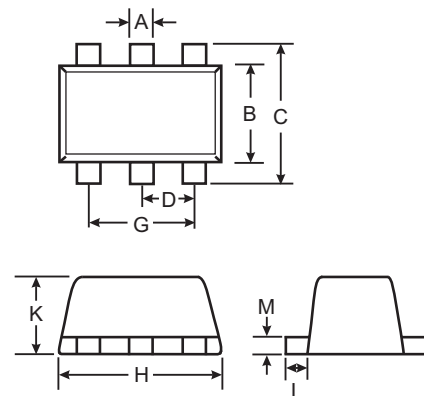
Symbol	Rating	Rating	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Reverse Voltage	75	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
I_O	Average Rectified Output Current	200	mA
I_{FM}	Forward Continuous Current	300	mA
P_D	Power dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	833	$^{\circ}C/W$
I_{FSM}	Peak forward surge current @=1.0us @=1.0s	2.0 1.0	A
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	75V		$I_R=100 \mu A$
I_R	Reverse Voltage Leakage Current		25nA 1 μA	$V_R=20V$ $V_R=75V$
V_F	Forward Voltage		715mV 855mV 1000mV 1250mV	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$
C_T	Total Capacitance		2pF	$V_R=0$, $f=1MHz$
t_{rr}	Reverse Recovery Time		4ns	$I_{rr}=1mA$, $I_R=I_F=10mA$, $R_L=100 \Omega$

150mW Switching Diodes

SOT-563



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.006	.011	0.15	0.30	
B	.043	.049	1.10	1.25	
C	.061	.067	1.55	1.70	
D	.020		0.50		
G	.035	.043	0.90	1.10	
H	.059	.067	1.50	1.70	
K	.022	.023	0.56	0.60	
L	.004	.011	0.10	0.30	
M	.004	.007	0.10	0.18	

BAS16V

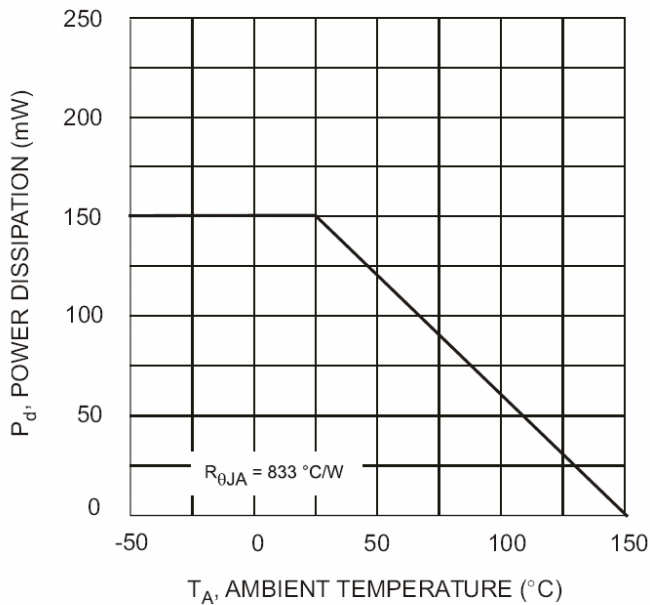


Fig. 1, Derating Curve - Total

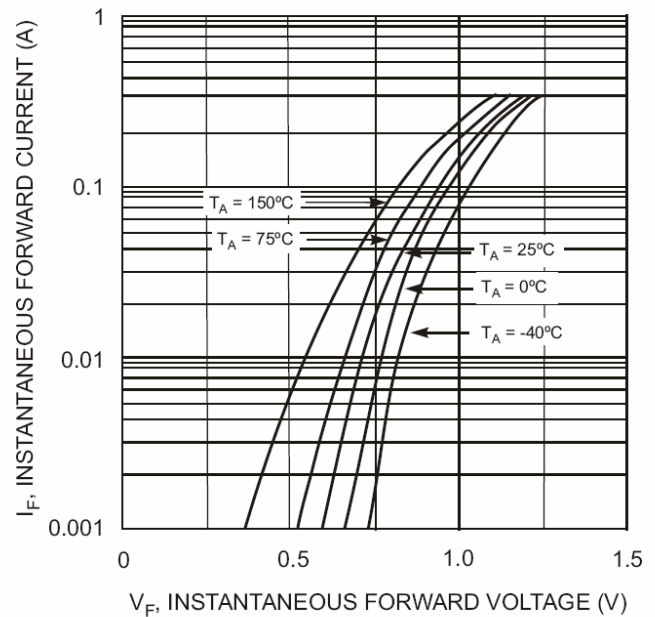


Fig. 2 Forward Characteristics

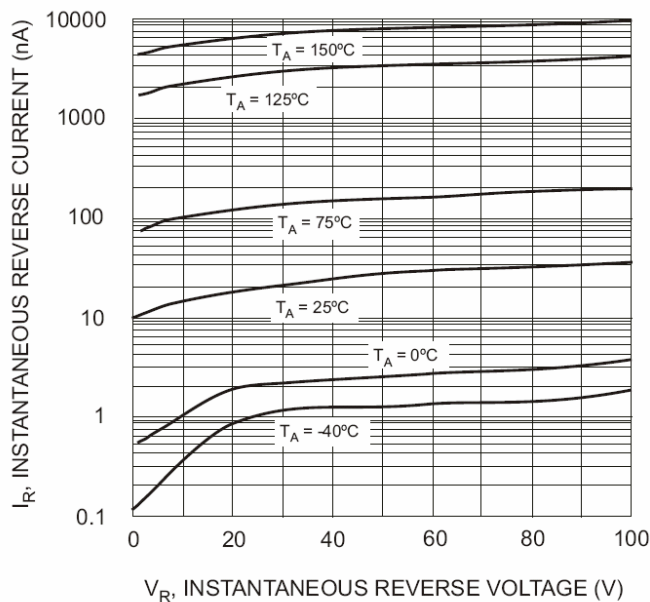


Fig. 3 Typical Reverse Characteristics

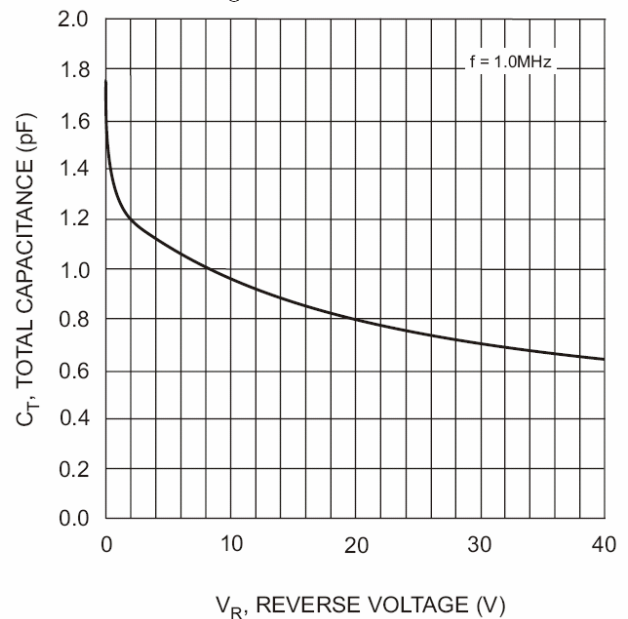
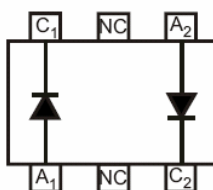


Fig. 4 Typical Capacitance vs. Reverse Voltage



Marking: KAM

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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