



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

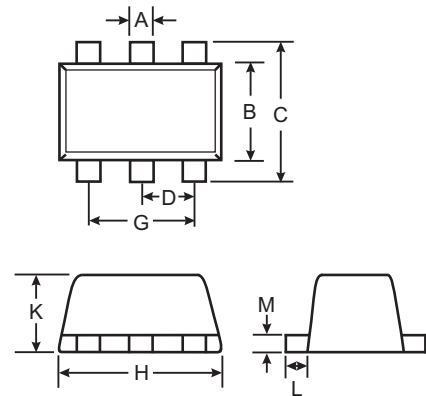
Symbol	Rating	Rating	Unit	
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V	
V_{RRM}	Peak Repetitive Reverse Voltage	75	V	
V_{RWM}	Working Peak Reverse Voltage			
V_R	DC Blocking Voltage			
I_O	Average Rectified Output Current	200	mA	
I_{FM}	Forward Continuous Current	300	mA	
P_D	Power dissipation	150	mW	
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	833	$^{\circ}C/W$	
I_{FSM}	Peak forward surge current	@=1.0us	2.0	A
		@=1.0s	1.0	
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	$V_R=20V$
			1 μA	$V_R=75V$
V_F	Forward Voltage		715mV	$I_F=1mA$
			855mV	$I_F=10mA$
			1000mV	$I_F=50mA$
			1250mV	$I_F=150mA$
C_T	Total Capacitance		2pF	$V_R=0, f=1MHz$
t_{rr}	Reverse Recovery Time		4ns	$I_{tr}=1mA, I_R=I_F=10mA, R_L=100 \Omega$

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	

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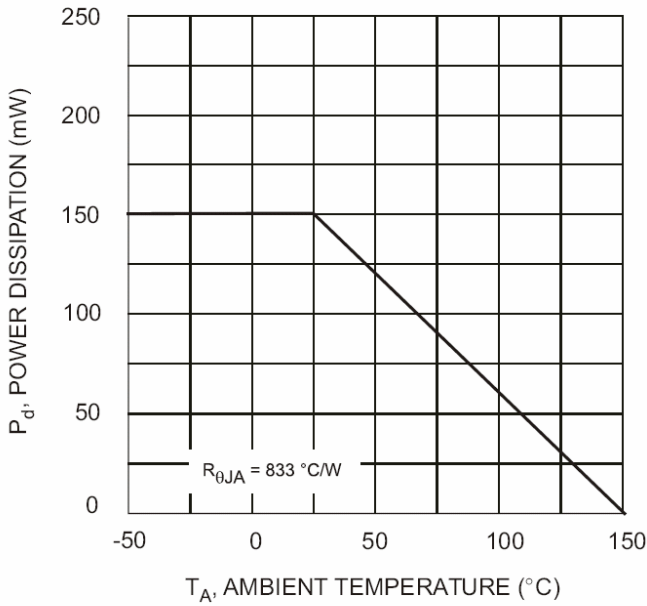


Fig. 1, Derating Curve - Total

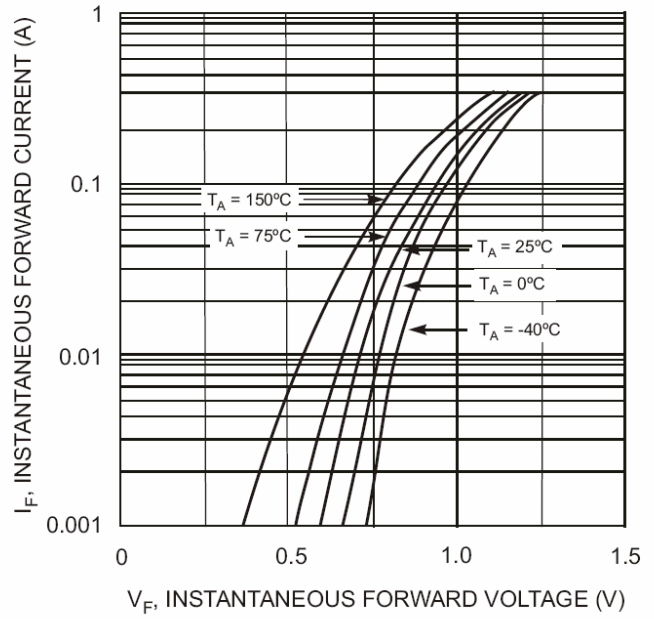


Fig. 2 Forward Characteristics

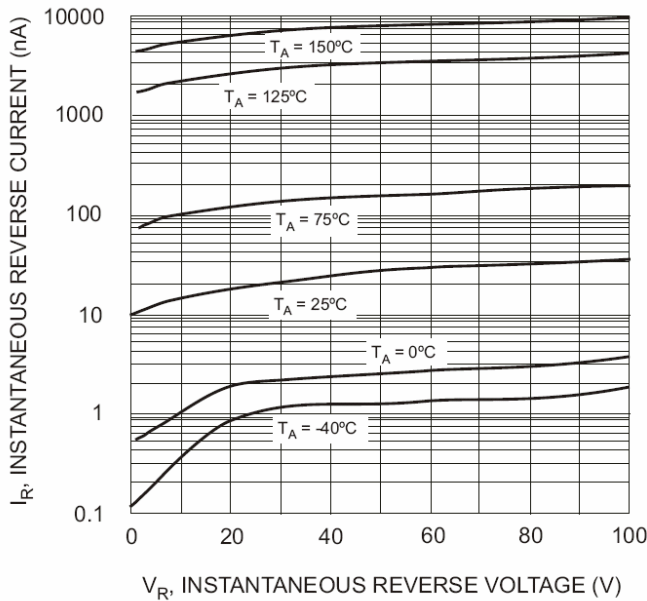


Fig. 3 Typical Reverse Characteristics

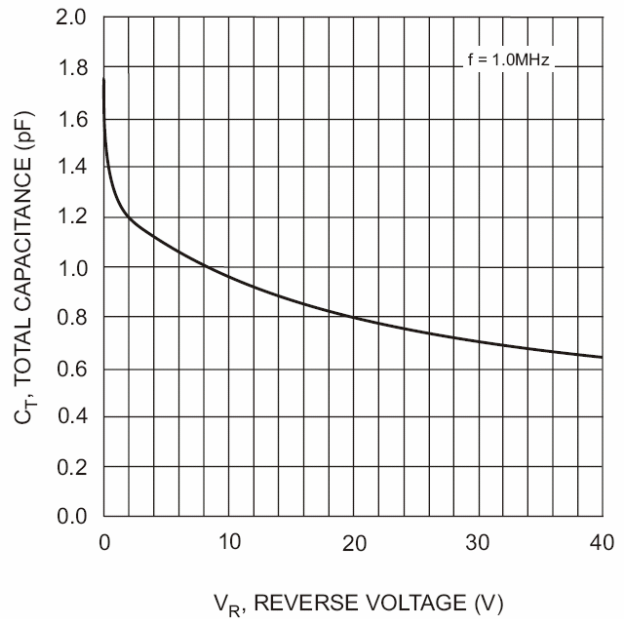
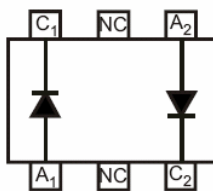


Fig. 4 Typical Capacitance vs. Reverse Voltage



Marking: KAM



TM

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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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