



## BAS40V

## Features

- Fast Switching Speed
- Low Forward Voltage Drop
- PN Junction Guard Ring for Transient and ESD Protection
- Lead Free Plating
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

**150mW**

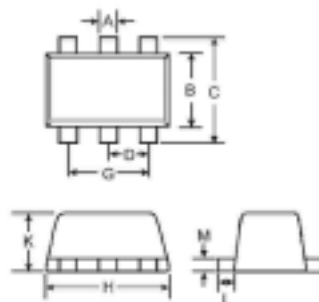
**Schottky Diodes**

## Maximum Ratings

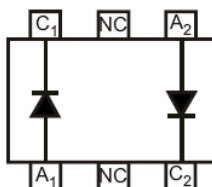
Symbol	Rating	Rating	Unit
$V_{RRM}$	Peak Repetitive Reverse Voltage	40	V
$V_{RWM}$	Working Peak Reverse Voltage		
$V_R$	DC Blocking Voltage		
$I_O$	Average Rectified Output Current	200	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	833	$^{\circ}C/W$
$P_D$	Power dissipation	150	mW
$T_J$	Junction Temperature	-55 to +125	$^{\circ}C$
$T_{STG}$	Storage Temperature	-65 to +150	$^{\circ}C$

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

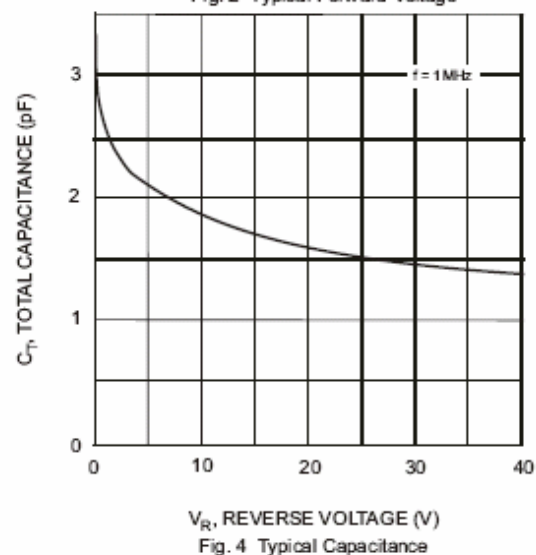
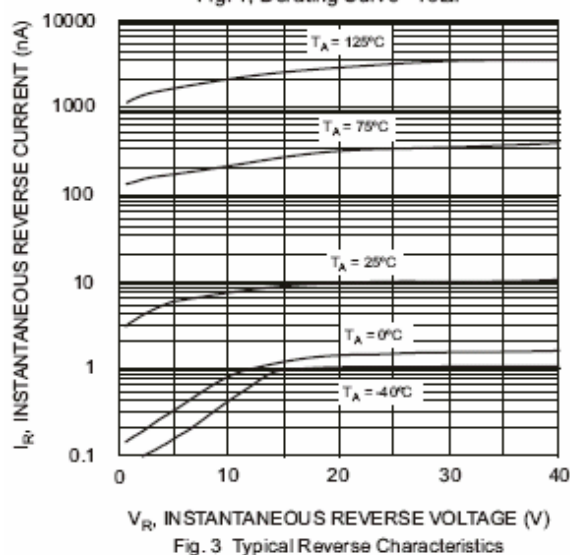
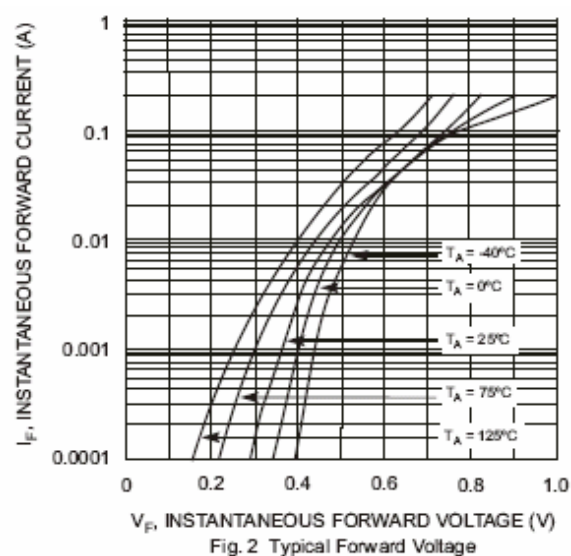
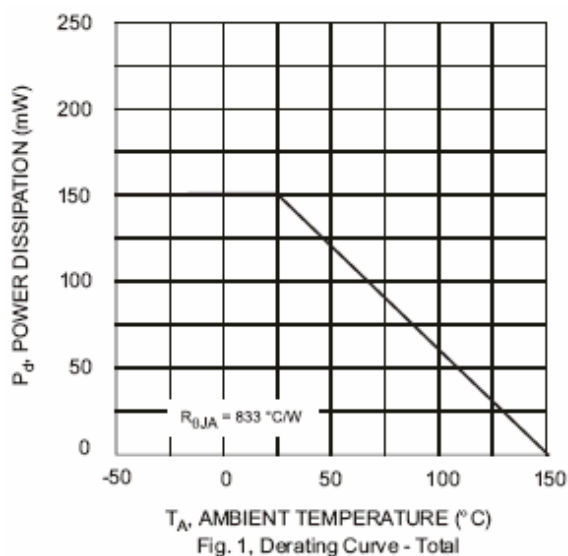
Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	40V		$I_R=10 \mu A$
$I_R$	Reverse Voltage Leakage Current		200nA	$V_R=30V, t_p<300 \mu s$
$V_F$	Forward Voltage		380mV 1000mV	$I_F=1mA, t_p<300 \mu s$ $I_F=40mA, t_p<300 \mu s$
$C_T$	Total Capacitance		5pF	$V_R=0, f=1MHz$
$t_{rr}$	Reverse Recovery Time		5ns	$I_{rr}=10mA, I_R=I_F=10mA, R_L=100 \Omega$



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	



Marking: KAN



## 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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