



Micro Commercial Components



Micro Commercial Components  
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**BAT54V**

## 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)

## Maximum Ratings

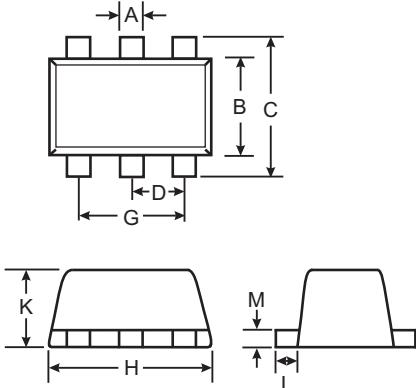
Symbol	Parameter	Rating	Unit
$V_{RRM}$	Peak Repetitive Reverse Voltage		
$V_{RWM}$	Working Peak Reverse Voltage	30	V
$V_R$	DC Blocking Voltage		
$I_O$	Average Rectified Output Current	200	mA
$R_{JA}$	Thermal Resistance Junction to Ambient	833	°C/W
$P_D$	Power dissipation	150	mW
$T_J$	Junction Temperature	-65 to +150	°C
$T_{STG}$	Storage Temperature	-65 to +150	°C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

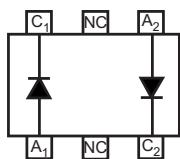
Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	30V		$I_R=100 \mu A$
$I_R$	Reverse Voltage Leakage Current		$2 \mu A$	$V_R=25V$
$V_F$	Forward Voltage	240mV 320mV 400mV 500mV 1000mV		$I_F=0.1mA$ $I_F=1.0mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$
$C_T$	Total Capacitance		$10pF$	$V_R=1V$ , $f=1MHz$
$t_{rr}$	Reverse Recovery Time		5ns	$I_{rr}=10mA$ , $I_R=10mA$ ~1mA, $R_L=100 \Omega$

**150mW  
Schottky Diodes**

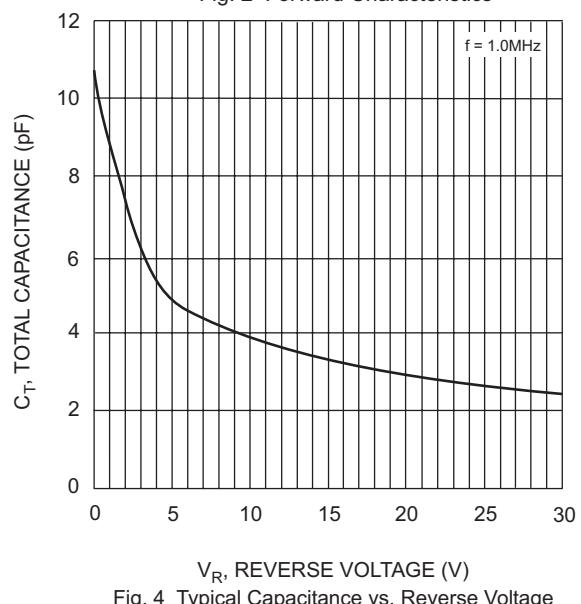
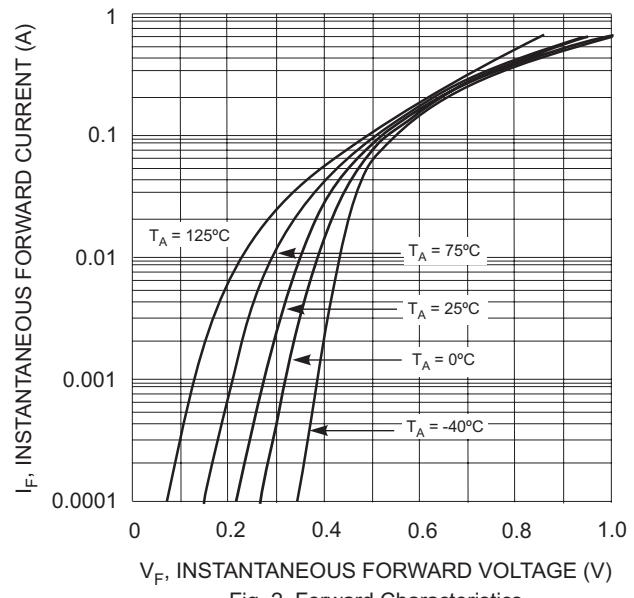
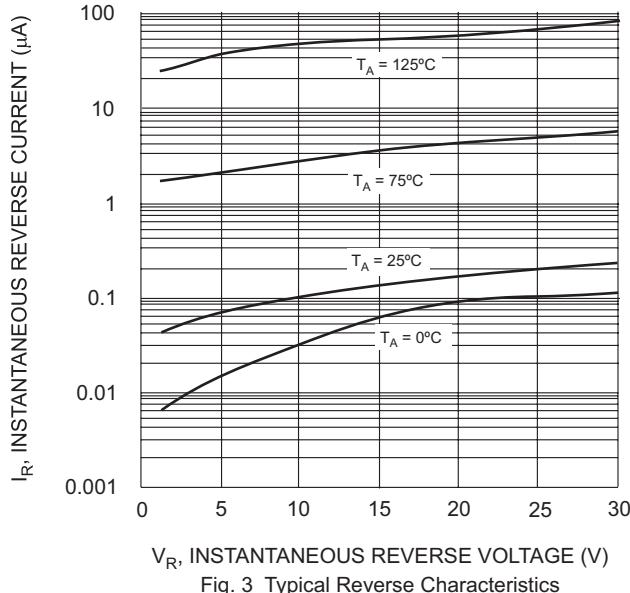
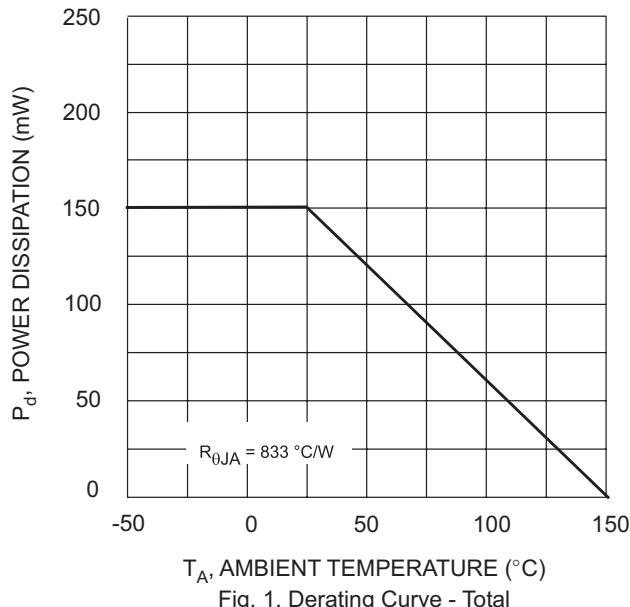
**SOT-563**



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	



Marking: KAV



<sup>TM</sup>

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## Ordering Information :

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

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Authorized Distributor

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