



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
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0

150mW

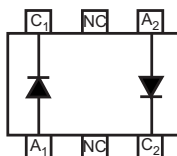
Schottky Diodes

Maximum Ratings

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

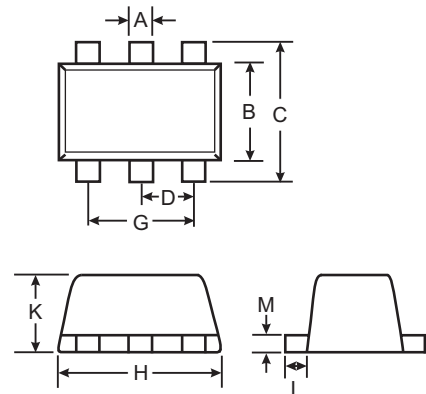
Electrical Characteristics @ 25°C Unless Otherwise Specified

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



Marking: KAV

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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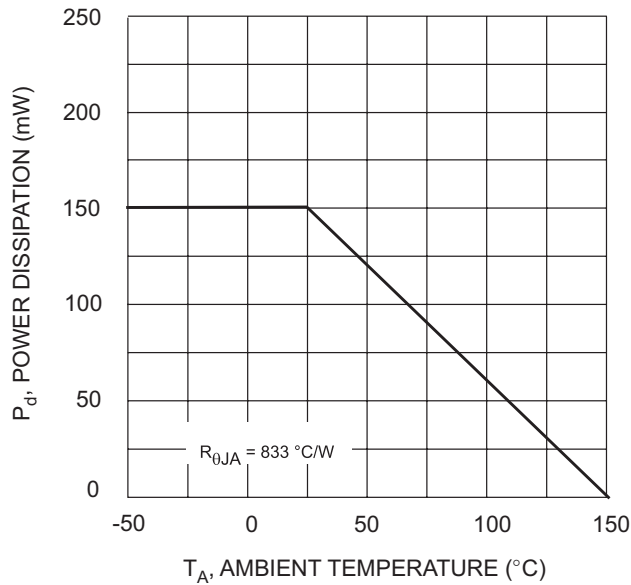


Fig. 1, Derating Curve - Total

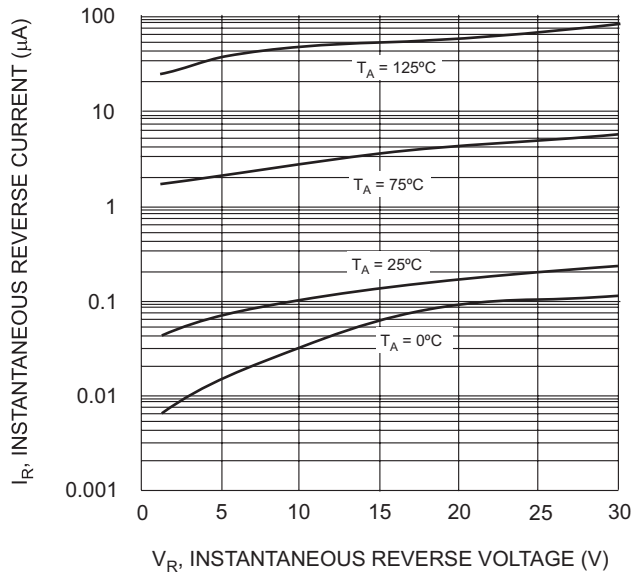


Fig. 3 Typical Reverse Characteristics

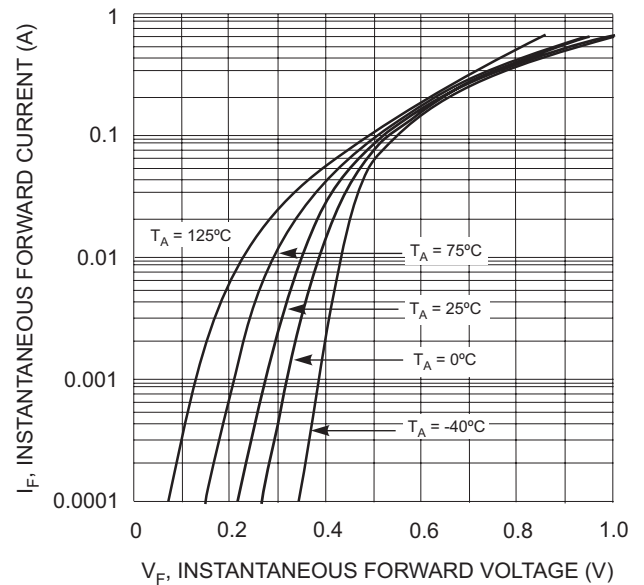


Fig. 2 Forward Characteristics

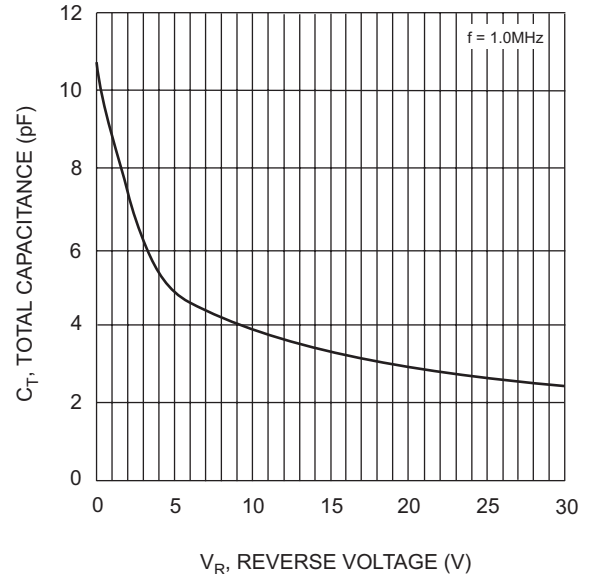


Fig. 4 Typical Capacitance vs. Reverse Voltage

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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