

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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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)

Maxim um Ratings

Symbol	Parameter	Rating	Unit
V_{RRM}	Peak Repetitive Reverse Voltage		
V_{RWM}	Working Peak Reverse Voltage	30	V
V_R	DC Blocking Voltage		
Ιο	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	$^{\circ}\mathbb{C}$
T _{STG}	Storage Temperature	-65 to +150	$^{\circ}\mathbb{C}$

Electrical Characteristics @ 25°C Unless Otherwise Specified

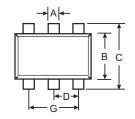
Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	30V		I _R =100 μ A
I _R	Reverse Voltage Leakage Current		2 µ A	V _R =25V
V _F	Forward Voltage		240mV 320mV 400mV 500mV 1000mV	I _F =0.1mA I _F =1.0mA I _F =10mA I _F =30mA I _F =100mA
Ст	Total Capacitance		10pF	V _R =1V, f=1MHZ
t _{rr}	Reverse Recovery Time		5ns	I_{rr} =10mA, I_{R} =10mA~1 mA, R_{L} =100 Ω

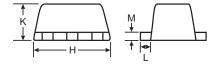


Marking: KAV

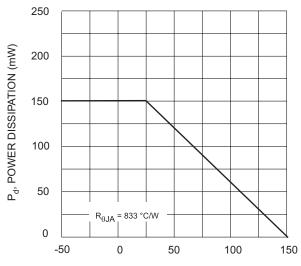
150mW Schottky Diodes







DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.006	.011	0.15	0.30		
В	.043	.049	1.10	1.25		
С	.061	.067	1.55	1.70		
D	.020		0.50			
G	.035	.043	0.90	1.10		
Η	.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		





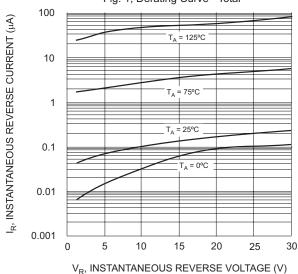
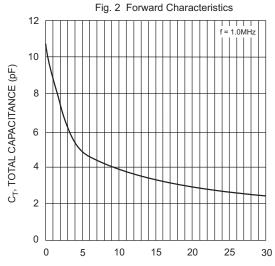


Fig. 3 Typical Reverse Characteristics

0.01 T_A = 125°C T_A = 75°C T_A = 25°C T_A = 25°C T_A = 0°C 0.0001 0 0.2 0.4 0.6 0.8 1.0

V_F, INSTANTANEOUS FORWARD VOLTAGE (V)



 $\label{eq:VR} {\rm V_{R},\,REVERSE\,VOLTAGE\,(V)}$ Fig. 4 Typical Capacitance vs. Reverse Voltage



Ordering Information:

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

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