



Micro Commercial Components

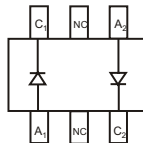


Micro Commercial Components  
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# BAT54DW

## Features

- Extremely-Fast Switching Speed
- Low Forward Voltage Drop
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- MARKING:KLD
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"

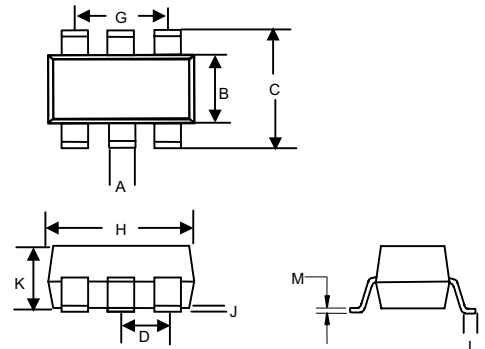


## 200mWatt, 30Volt Schottky Diodes

## Maximum Ratings

Symbol	Rating	Rating	Unit
$V_{RRM}$	Peak Repetitive Reverse Voltage	30	V
$V_{RWM}$	Working Peak Reverse Voltage		
$V_R$	DC Blocking Voltage		
$I_F$	Forward Current	200	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	635	$^{\circ}C/W$
$P_D$	Power dissipation	200	mW
$T_J$	Junction Temperature	-65 to +150	$^{\circ}C$
$T_{STG}$	Storage Temperature	-65 to +150	$^{\circ}C$
$I_{FRM}$	Repetitive peak forward current	300	mA
$I_{FSM}$	Peak forward current (9t=1us)	600	mA

## SOT-363



## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	30V		$I_R=10 \mu A$
$I_R$	Reverse Voltage Leakage Current		2 $\mu A$	$V_R=25V$
$V_F$	Forward Voltage		0.24V 0.50V 1.0V 0.32V 0.40V	$I_F=0.1mA$ $I_F=30mA$ $I_F=100mA$ $I_F=1.0mA$ $I_F=10mA$
$C_T$	Total Capacitance		10pF	$V_R=1V, f=1MHz$
$t_{rr}$	Reverse Recovery Time		5ns	$I_{rr}=10mA, I_R=10mA \sim 1mA$

DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	



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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