

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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BAT54TW/ADW/ CDW/SDW/BRW

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information) Fast Switching and Low Forward Voltage Drop
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Available in Lead Free Version
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

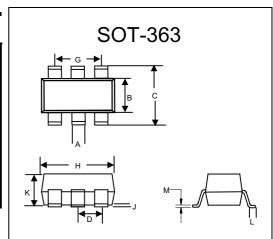
Continuos Reverse Voltage	V_R	30V
Forward Continuous Current	I _F	200mA
Repetitive Peak Forward Current	I_{FRM}	300mA
Peak Forward Current t<1s	I _{FSM}	600mA
Power Dissipation @ T _A = 25°C	P_D	200mW
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	625°C/W
Storage Temperature Range	T _{stg}	-65°C to 125°C
Operating Temperature Range	T _j	-65°C to 125°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Max.	Notes
Forward Voltage at $I_F = 0.1 \text{mA}$ $I_F = 1 \text{mA}$ $I_F = 10 \text{mA}$ $I_F = 30 \text{mA}$ $I_F = 100 \text{mA}$	V_{F}	240mV 320mV 400mV 500mV 1000mV	Note 2
Reverse Current	I _R	2.0μΑ	V _R = 25V
Reverse Breakdown Voltage	$V_{(BR)}$	>30V	
Capacitance	С	10pF	Measured at 1.0MHz, V _R =1.0V
Reverse Recovery Time	t _{rr}	5.0nS	$I_F=I_R=10$ mA; $I_{REC}=1$ mA, $R_L=100$ Ω

Notes:1.High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2. Short duration test pulse used to minimize self-heating effect

200mWatt, 30Volt **Schottky Barrier Diode**

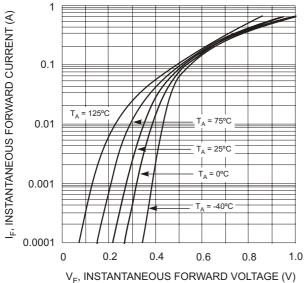


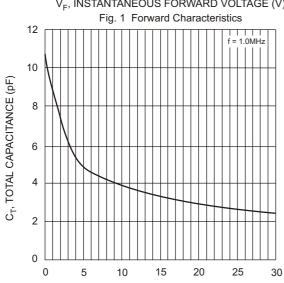
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	0.006	0.014	0.15	0.35	
В	0.045	0.053	1.15	1.35	
O	0.085	0.096	2.15	2.45	
D	0.026 No	ominal	0.65 N	ominal	
G	0.047	0.055	1.20	1.40	
H	0.071	0.087	1.80	2.20	
J		0.004		0.10	
K	0.035	0.043	0.90	1.10	
Г	0.010	0.018	0.26	0.46	
M	0.003	0.006	0.08	0.15	



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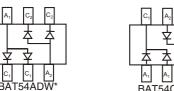
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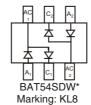


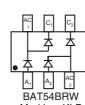
V_R, REVERSE VOLTAGE (V)

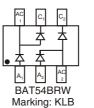
Fig. 3 Typical Capacitance vs. Reverse Voltage

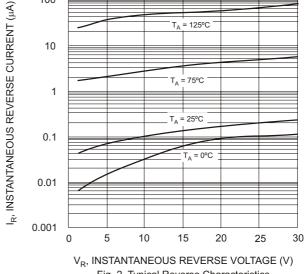


Marking: KL7

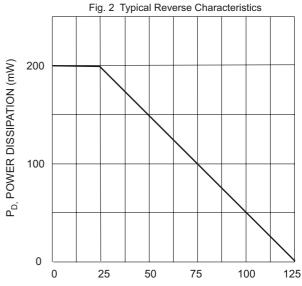




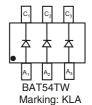




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T_A, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve



^{*}Symmetrical configuration, no orientation indicator.



Ordering Information:

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

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