



BAT54TW/ADW/ CDW/SDW/BRW

Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- 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

Continuous 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 @ $T_A = 25^\circ C$	P_D	200mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	$625^\circ C/W$
Storage Temperature Range	T_{stg}	$-65^\circ C$ to $125^\circ C$
Operating Temperature Range	T_j	$-65^\circ C$ to $125^\circ C$

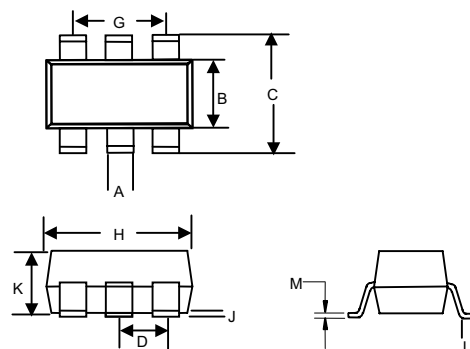
Electrical Characteristics @ $25^\circ C$ Unless Otherwise Specified

Ratings	Symbol	Max.	Notes
Forward Voltage at $I_F = 0.1mA$ $I_F = 1mA$ $I_F = 10mA$ $I_F = 30mA$ $I_F = 100mA$	V_F	240mV 320mV 400mV 500mV 1000mV	Note 2
Reverse Current	I_R	$2.0\mu A$	$V_R = 25V$
Reverse Breakdown Voltage	$V_{(BR)}$	$>30V$	
Capacitance	C_J	10pF	Measured at 1.0MHz, $V_R = 1.0V$
Reverse Recovery Time	t_{rr}	5.0nS	$I_F = I_R = 10mA$; $I_{REC} = 1mA, R_L = 100\Omega$

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

SOT-363



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.006	0.014	0.15	0.35	
B	0.045	0.053	1.15	1.35	
C	0.085	0.096	2.15	2.45	
D	0.026 Nominal		0.65 Nominal		
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	
L	0.010	0.018	0.26	0.46	
M	0.003	0.006	0.08	0.15	

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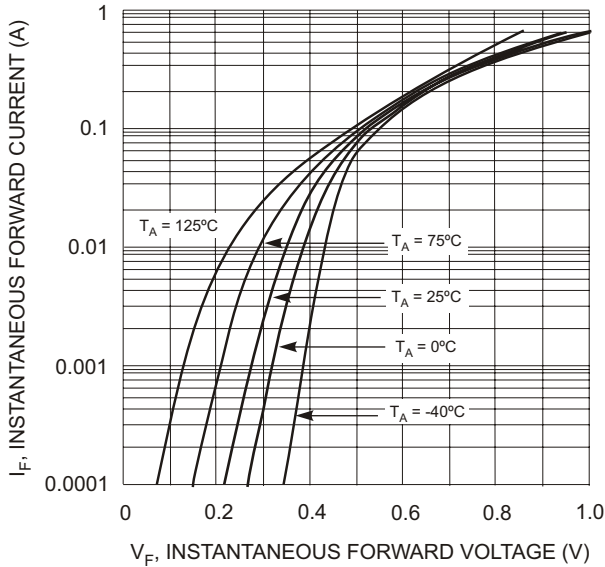


Fig. 1 Forward Characteristics

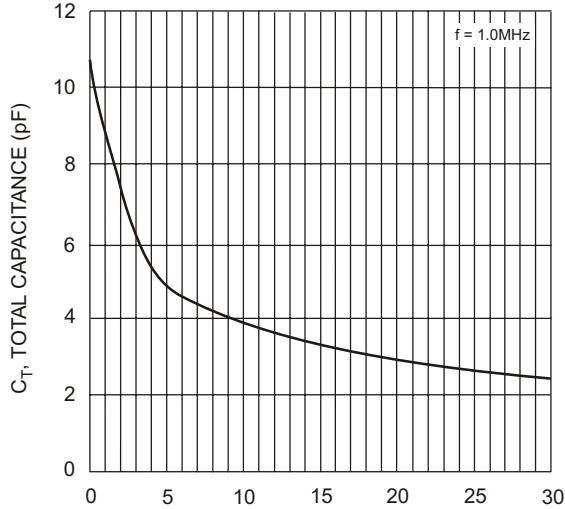


Fig. 3 Typical Capacitance vs. Reverse Voltage

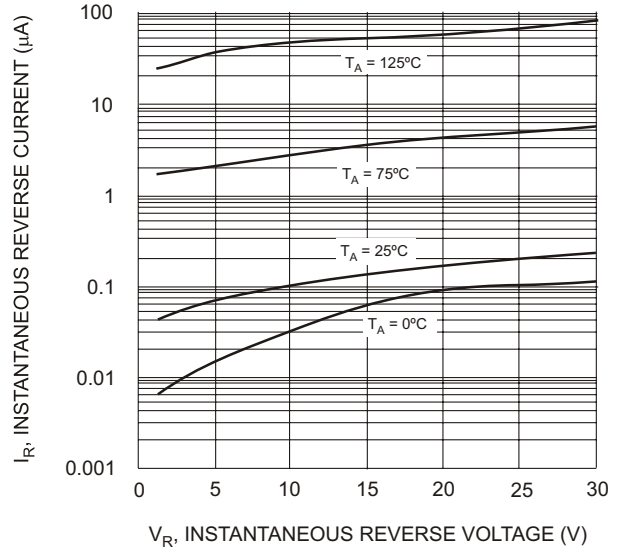


Fig. 2 Typical Reverse Characteristics

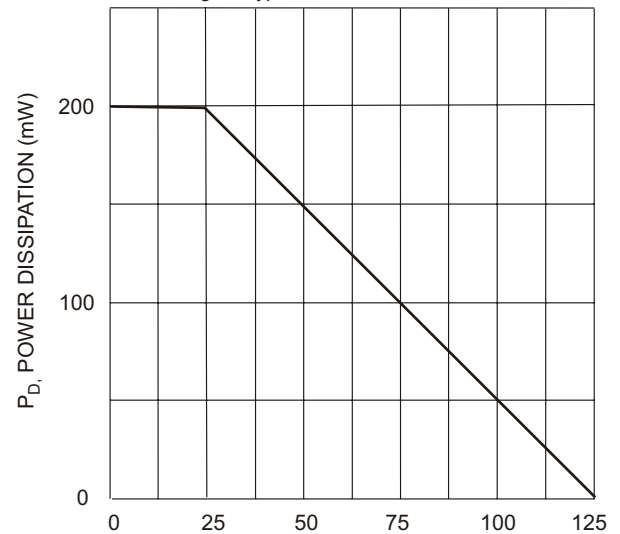
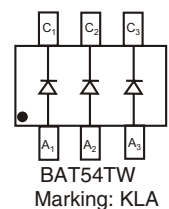
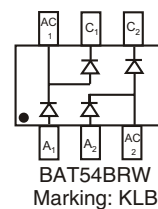
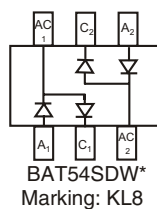
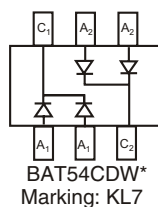
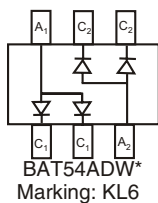


Fig. 4 Power Derating Curve



*Symmetrical configuration, no orientation indicator.



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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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