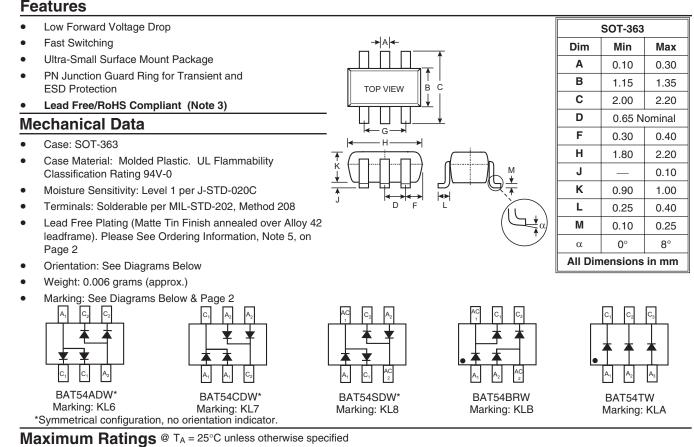


BAT54TW /ADW /CDW /SDW /BRW

SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAYS



Symbol Characteristic Value Unit Peak Repetitive Reverse Voltage VRRM V_{RWM} V_R V Working Peak Reverse Voltage 30 DC Blocking Voltage Forward Continuous Current (Note 1) IF 200 mA Repetitive Peak Forward Current (Note 1) IFRM 300 mA Forward Surge Current (Note 1) 600 mΑ @ t < 1.0s IFSM Power Dissipation (Note 1) P_d 200 mW Thermal Resistance, Junction to Ambient Air (Note 1) R_{θJA} 625 °C/W Operating and Storage Temperature Range T_i, T_{STG} °C -65 to +125

Electrical Characteristics @ T_A = 25°C unless otherwise specified

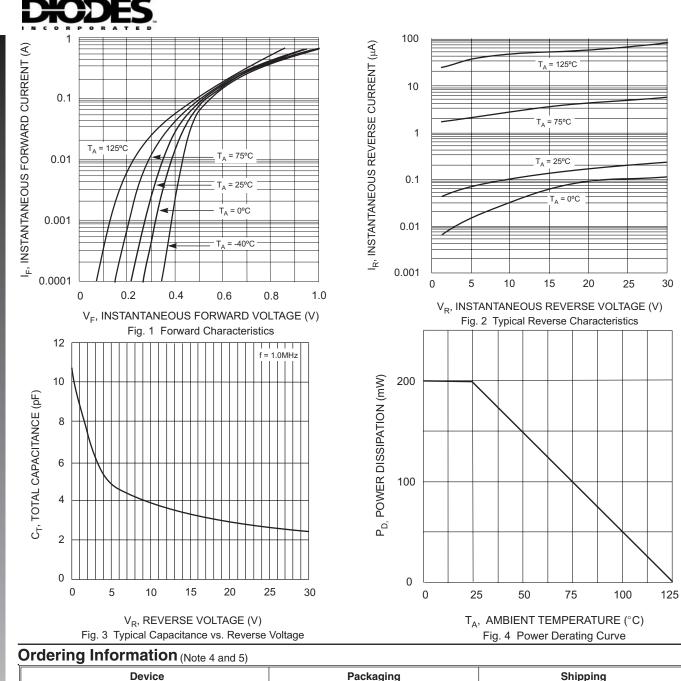
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition	
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	30	—		V	$I_{R} = 100 \mu A$	
Forward Voltage (Note 2)				240 320 400 500 1000	mV		
Reverse Leakage Current (Note 2)	I _R			2.0	μA	V _R = 25V	
Total Capacitance	CT		—	10	pF	$V_{R} = 1.0V, f = 1.0MHz$	
Reverse Recovery Time	t _{rr}		_	5.0	ns	$I_F = 10mA \text{ through } I_R = 10mA \text{ to } I_R = 1.0mA, R_L = 100\Omega$	

Notes: 1. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

2. Short duration test pulse used to minimize self-heating effect.

3. No purposefully added lead.

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Device	Packaging	Shipping
BAT54ADW-7-F BAT54CDW-7-F BAT54SDW-7-F BAT54BRW-7-F BAT54TW-7-F	SOT-363	3000/Tape & Reel

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information

NEW PRODUCT

KXX = Product Type Marking Code (See Page 1) YM = Date Code Marking Y = Year ex: N = 2002 M = Month ex: 9 = September Date Code Key							KXX Product Type Marking Code KXX YM WA XXX H YM YM							
Year	20	001	2002	2003	20	04	2005	200	6 2007		2008		2009	
Code	I	M	Ν	Р	F	۲	S	Т	U		V		W	
Month		Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Code		1	2	3	4	5	6	7	8	9	0	Ν	D	

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