

Maximum Ratings ($@T_A = +25^{\circ}C$, unless otherwise specified.)

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	V
Forward Continuous Current (Note 5)	lF	200	mA
Repetitive Peak Forward Current (Note 5)	I _{FRM}	300	mA
Forward Surge Current (Note 5) @ t < 1.0s	IFSM	600	mA

Thermal Characteristics

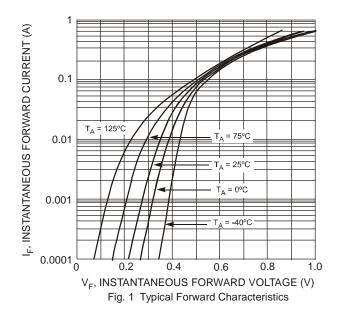
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 5)	PD	200	mW
Thermal Resistance, Junction to Ambient Air (Note 5)	R _θ JA	625	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-65 to +125	°C

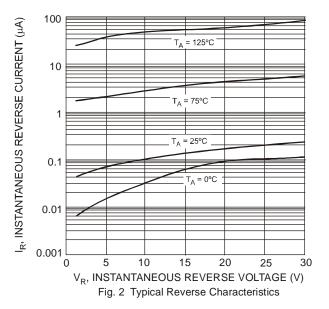
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 6)	V _{(BR)R}	30	_	_	V	I _R = 100μA
Forward Voltage (Note 6)	VF		_	240 320 400 500 1,000	mV	$l_{F} = 0.1mA$ $l_{F} = 1mA$ $l_{F} = 10mA$ $l_{F} = 30mA$ $l_{F} = 100mA$
Reverse Leakage Current (Note 6)	I _R	_	_	2.0	μA	V _R = 25V
Total Capacitance	Ст	_	_	10	pF	V _R = 1.0V, f = 1.0MHz
Reverse Recovery Time	trr			5.0	ns	$I_F = 10mA$ through $I_R = 10mA$ to $I_R = 1.0mA$, $R_L = 100\Omega$

Notes: 5. Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch; pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.

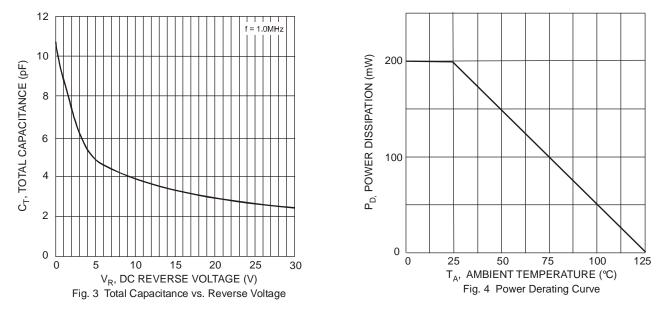
6. Short duration pulse test used to minimize self-heating effect.





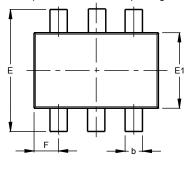


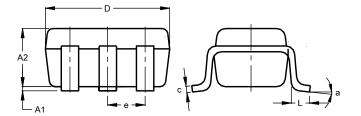
BAT54TW /ADW / CDW /SDW /BRW



Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.



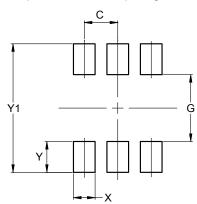


SOT363				
Dim	Min	Max	Тур	
A1	0.00	0.10	0.05	
A2	0.90	1.00	1.00	
b	0.10	0.30	0.25	
c	0.10	0.22	0.11	
D	1.80	2.20	2.15	
Е	2.00	2.20	2.10	
E1	1.15	1.35	1.30	
е	0.650 BSC			
F	0.40	0.45	0.425	
L	0.25	0.40	0.30	
а	0°	8°		
All Dimensions in mm				



Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value (in mm)
С	0.650
G	1.300
Х	0.420
Ŷ	0.600
Y1	2.500

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