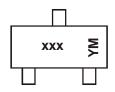


Marking Information



xxx = Product Type Marking Code

KL5 = BAT54WKL6 = BAT54AW

KL7 = BAT54CW KL8 = BAT54SW

YM = Date Code Marking

Y = Year (ex: F = 2018)

M = Month (ex: 9 = September)

Date Code Key

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Code	X	Υ	Z	Α	В	С	D	Е	F	G	Η	ı	J	K	L
Month	Jan	Fe	b	Mar	Apr	May	Ju	n	Jul	Aug	Sep	Oc	t	Nov	Dec

Maximum Ratings (@T_A = +25°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 6)		I _F	200	mA
Repetitive Peak Forward Current (Note 6)		I _{FRM}	300	mA
Forward Surge Current (Note 6)	@ t < 1.0s	I _{FSM}	600	mA

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 6)	P_{D}	200	mW
Thermal Resistance Junction to Ambient Air (Note 6)	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +125	°C

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

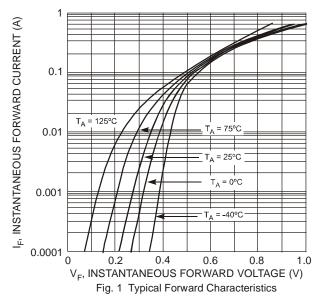
Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 7)	$V_{(BR)R}$	30	_	_	V	$I_R = 100\mu A$
Forward Voltage	V _F	_	_	240 320 400 500 1,000	mV	I _F = 0.1mA I _F = 1mA I _F = 10mA I _F = 30mA I _F = 100mA
Reverse Leakage Current (Note 7)	I _R	_	_	2.0	μΑ	V _R = 25V
Total Capacitance	C _T	_	_	10	pF	$V_R = 1.0V, f = 1.0MHz$
Reverse Recovery Time	t _{RR}	_	_	5.0	ns	$I_F = 10$ mA through $I_R = 10$ mA to $I_R = 1.0$ mA, $R_L = 100$ Ω

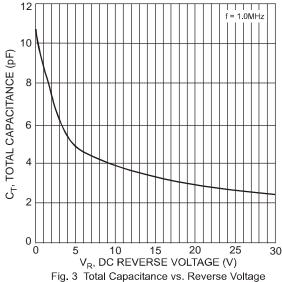
Notes:

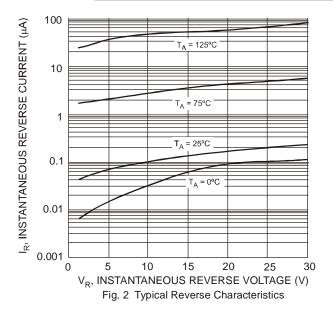
- 6. Mounted on FR-4 PC board with recommended pad layout which can be found on our website at http://www.diodes.com/package-outlines.html.7. Short duration pulse test used to minimize self-heating effect.

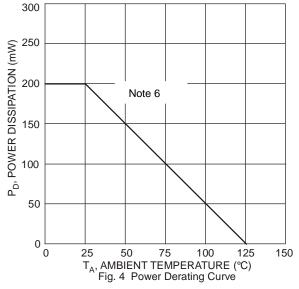










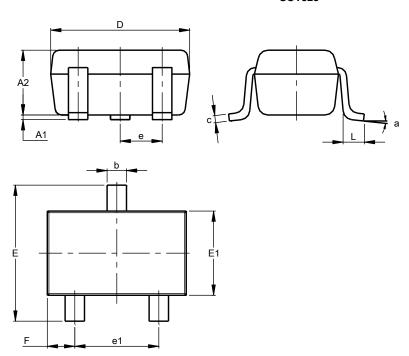




Package Outline Dimensions

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

SOT323

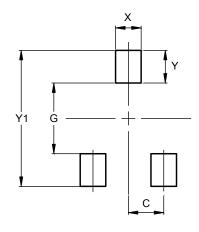


SOT323							
Dim	Min	Max	Тур				
A1	0.00	0.10	0.05				
A2	0.90	1.00	0.95				
b	0.25	0.40	0.30				
C	0.10	0.18	0.11				
D	1.80	2.20	2.15				
Е	2.00	2.20	2.10				
E1	1.15	1.35	1.30				
е	0.650 BSC						
e1	1.20	1.40	1.30				
F	0.375	0.475	0.425				
L	0.25	0.40	0.30				
а	0°	8°					
All Dimensions in mm							

Suggested Pad Layout

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

SOT323



Dimensions	Value (in mm)			
С	0.650			
G	1.300			
Х	0.470			
Y	0.600			
Y1	2.500			





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