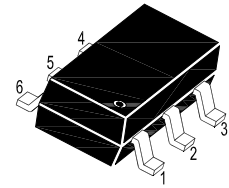
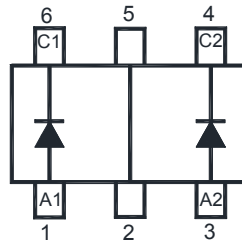


# BAT54JDW

## Surface Mount Schottky Barrier Diodes



SOT-363 Plastic Package  
Marking Code : C8

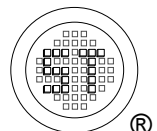
### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$	30	V
Average Rectified Forward Current <sup>1)</sup>	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current <sup>1)</sup> $t < 1\text{ s}$	$I_{FSM}$	600	mA
Power Dissipation <sup>1)</sup>	$P_{tot}$	200	mW
Thermal Resistance Junction to Ambient <sup>1)</sup>	$R_{\theta JA}$	625	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	$T_J, T_{stg}$	- 65 to + 125	$^\circ\text{C}$

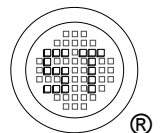
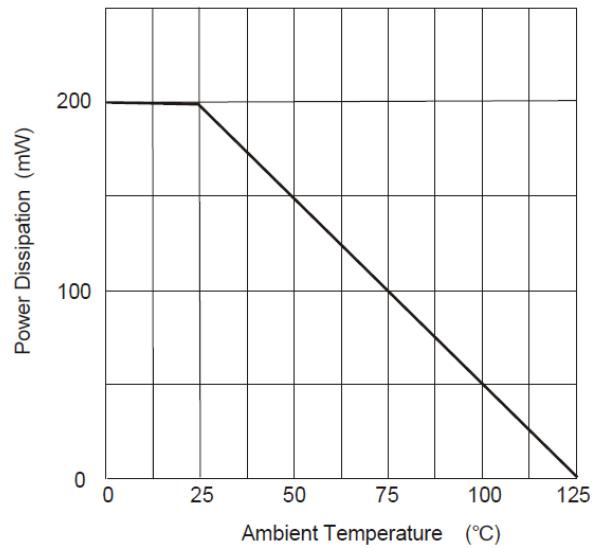
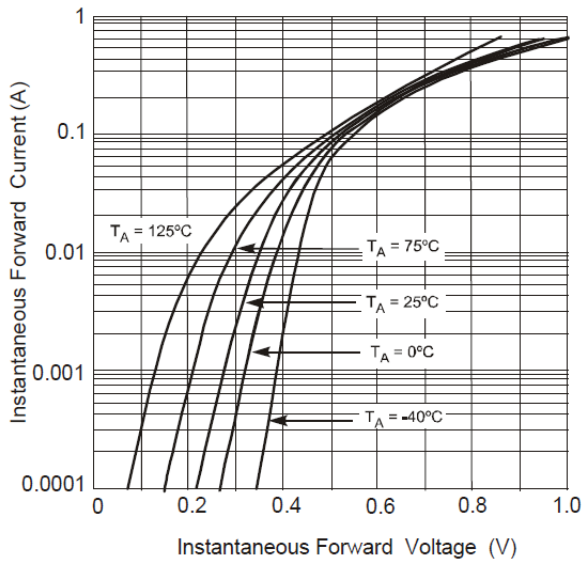
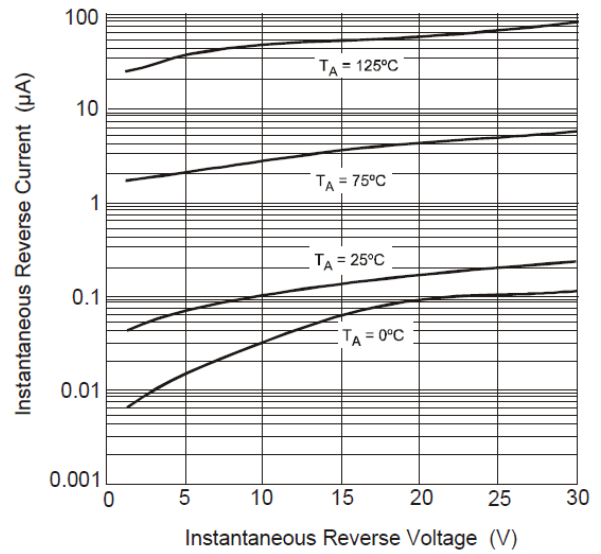
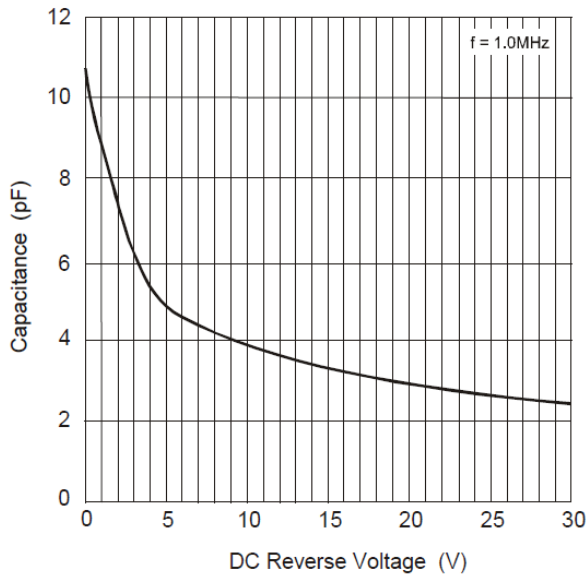
<sup>1)</sup> Device mounted on FR-4 PC board with recommended pad layout.

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at $I_R = 100\text{ }\mu\text{A}$	$V_{(BR)R}$	30	-	V
Forward Voltage at $I_F = 0.1\text{ mA}$	$V_F$	-	240	mV
at $I_F = 1\text{ mA}$	$V_F$	-	320	mV
at $I_F = 10\text{ mA}$	$V_F$	-	400	mV
at $I_F = 30\text{ mA}$	$V_F$	-	500	mV
at $I_F = 100\text{ mA}$	$V_F$	-	800	mV
Reverse Current at $V_R = 25\text{ V}$	$I_R$	-	2	$\mu\text{A}$
Total Capacitance at $V_R = 1\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	-	10	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$ , $I_R = 10\text{ mA}$ , $I_{RR} = 1\text{ mA}$ , $R_L = 100\text{ }\Omega$	$t_{rr}$	-	5	ns



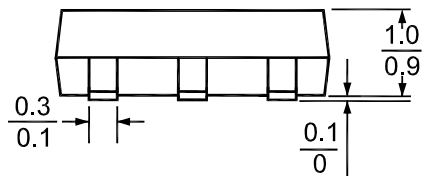
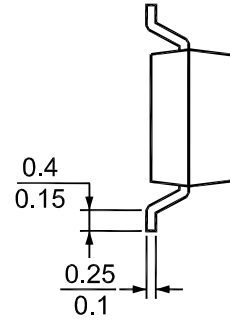
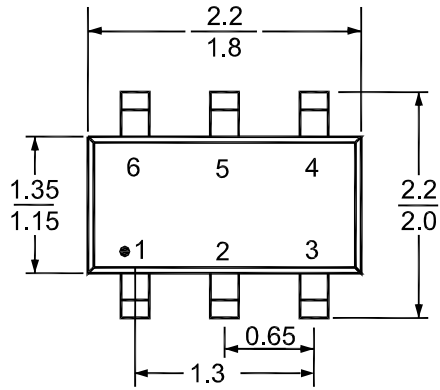
# BAT54JDW



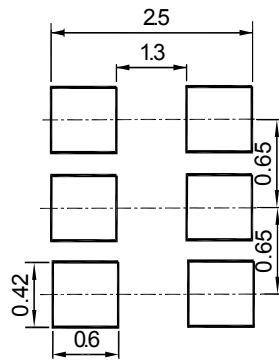
# BAT54JDW

## Package Outline Dimensions (Units: mm)

SOT-363



## Recommended Soldering Footprint



## Packing information

Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	inch	mm	inch	
SOT-363	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

