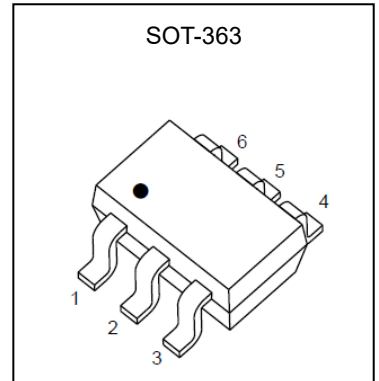


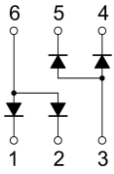
**BAT54ADW/BRW/CDW/SDW/DW/JW Schottky Barrier Diode**

**Feature**

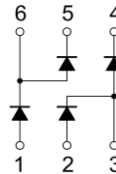
- Extremely Fast Switch Speed
- Low Forward Voltage
- Small Surface Mount Package



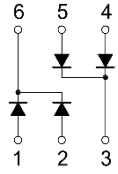
**MARKING:**



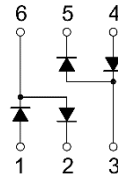
**BAT54ADW**



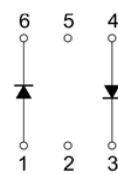
**BAT54BRW**



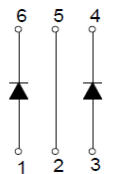
**BAT54CDW**








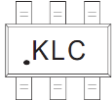
**BAT54SDW**



**BAT54DW**



**BAT54JW**

BAT54ADW	BAT54BRW	BAT54CDW	BAT54SDW	BAT54DW	BAT54JW
					

Solid dot = Pin1 indicate.

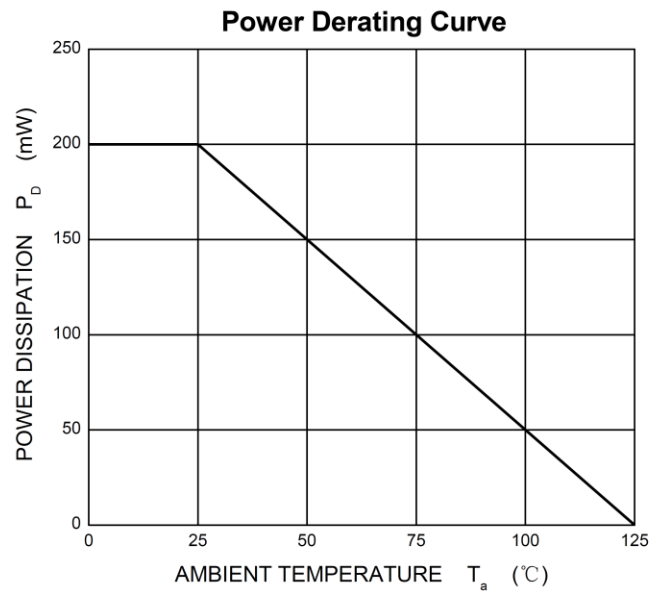
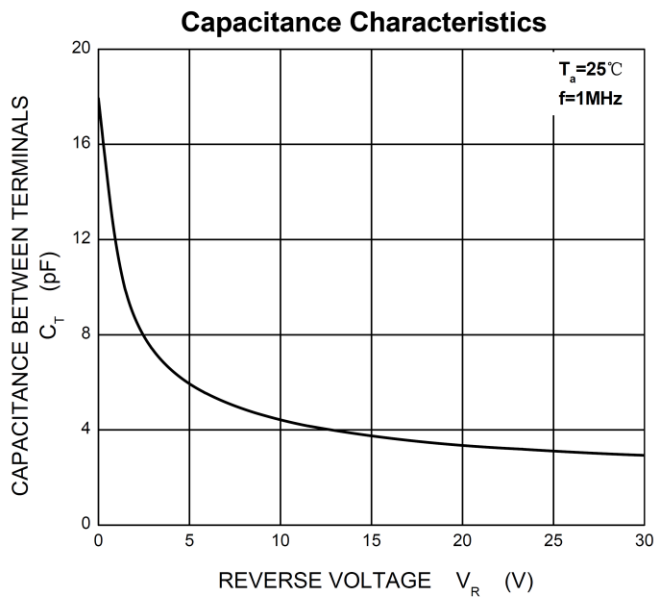
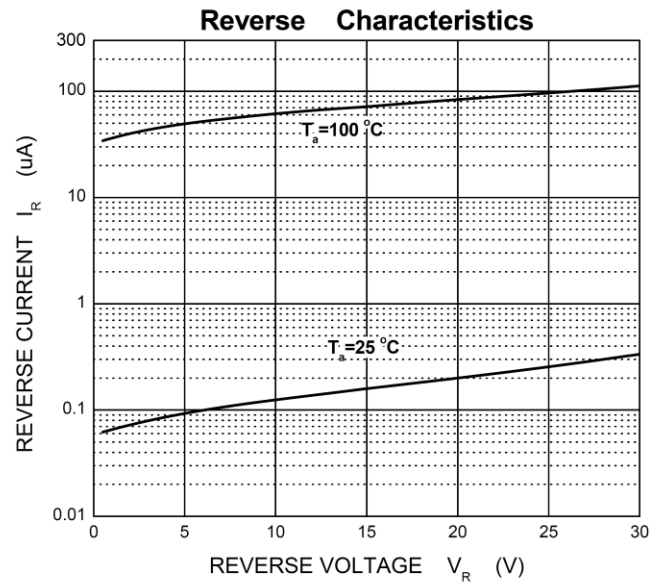
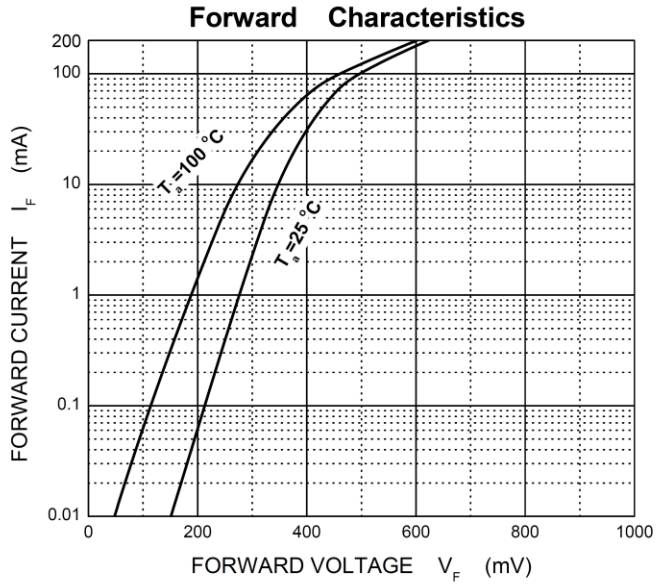
**ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
DC reverse voltage	V <sub>R</sub>	30	V
Mean rectifying current	I <sub>O</sub>	0.2	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I <sub>FSM</sub>	0.6	A
Power Dissipation	P <sub>D</sub>	0.2	W
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	500	°C/W
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150	°C

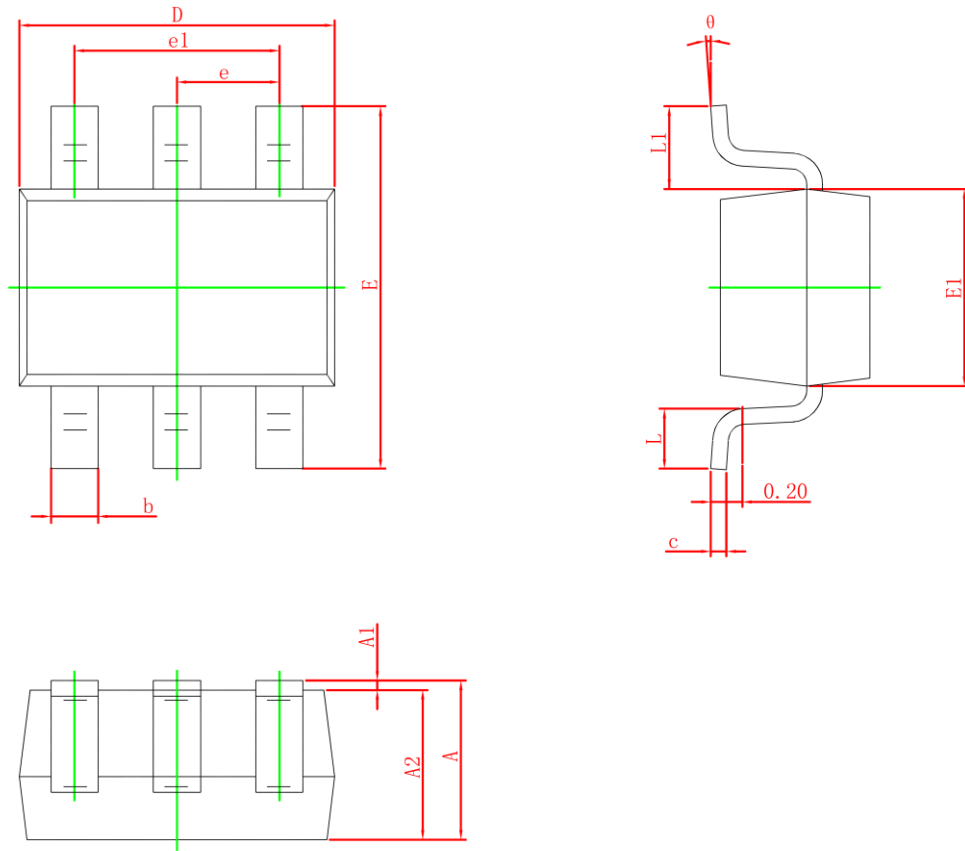
**ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)**

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse breakdown voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA	30			V
Forward voltage	V <sub>F1</sub>	I <sub>F</sub> =0.1mA			0.24	V
	V <sub>F2</sub>	I <sub>F</sub> =1mA			0.32	V
	V <sub>F3</sub>	I <sub>F</sub> =10mA			0.40	V
	V <sub>F4</sub>	I <sub>F</sub> =30mA			0.50	V
	V <sub>F5</sub>	I <sub>F</sub> =100mA			1	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =25V			2	μA
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1* I <sub>R</sub> , R <sub>L</sub> =100Ω			5	ns
Capacitance between terminals	C <sub>T</sub>	V <sub>R</sub> =1V,f=1MHz			10	pF

**Typical Characteristics**



## SOT-363 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.000	0.035	0.039
A1	0	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
b	0.150	0.350	0.006	0.014
c	0.080	0.150	0.003	0.006
D	1.800	2.200	0.071	0.087
E	2.000	2.450	0.079	0.096
E1	1.150	1.350	0.045	0.053
e	0.650TYP		0.026TYP	
e1	1.200	1.400	0.047	0.055
L1	0.525REF		0.021REF	
L	0.260	0.460	0.010	0.018
$\theta$	0°	8°	0°	8°