

BAT54ADW~BAT54TW

Schottky Diode

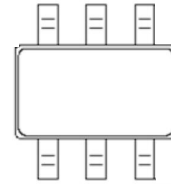
FEATURE

- Low Forward Voltage Schottky Rectifier
- PN Junction Guard Ring for Transient and ESD Protection
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish

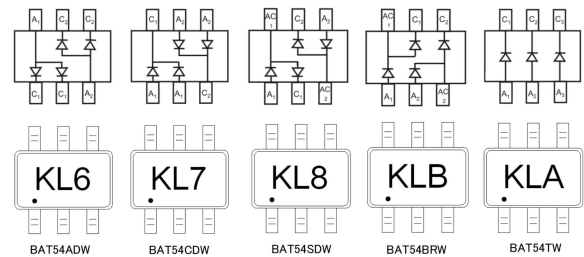
MARKING:

BAT54ADW	KL6
BAT54CDW	KL7
BAT54SDW	KL8
BAT54BRW	KLB
BAT54TW	KLA

SOT-363



Schematic diagram



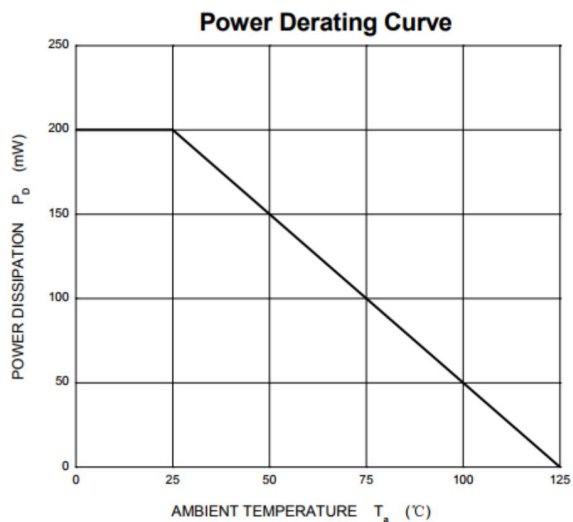
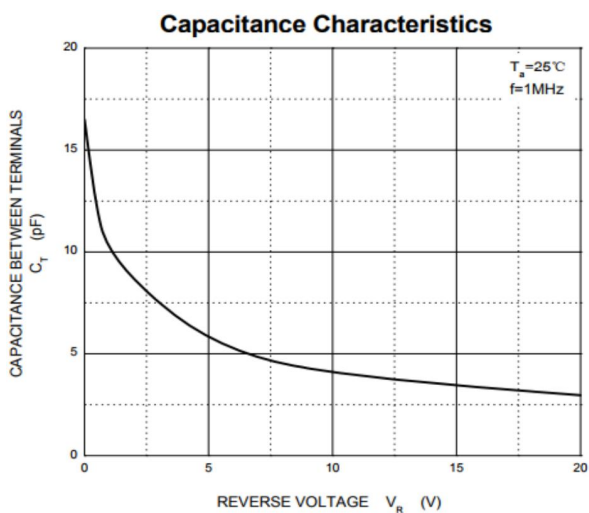
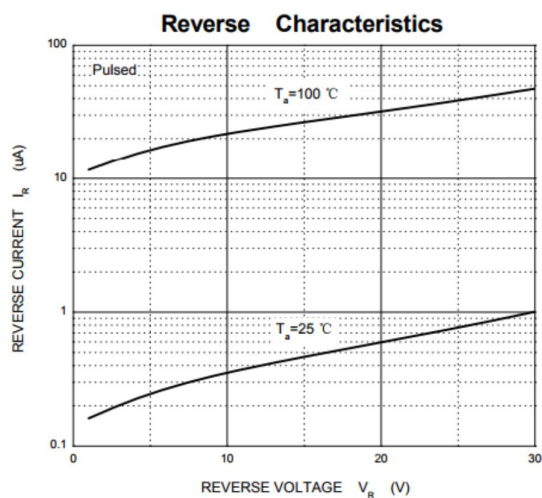
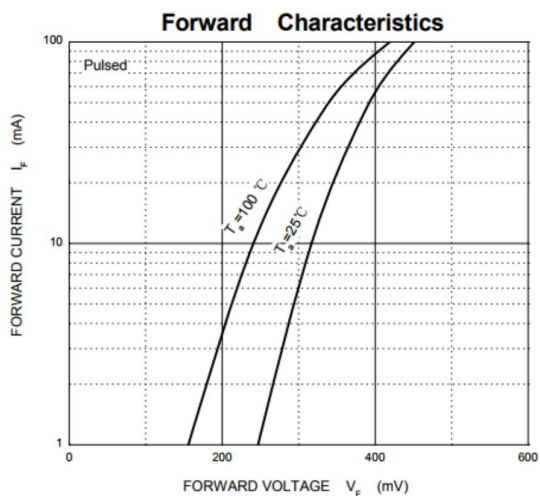
ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Peak Working Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_O	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	600	
Power Dissipation	P_D	200	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise noted)

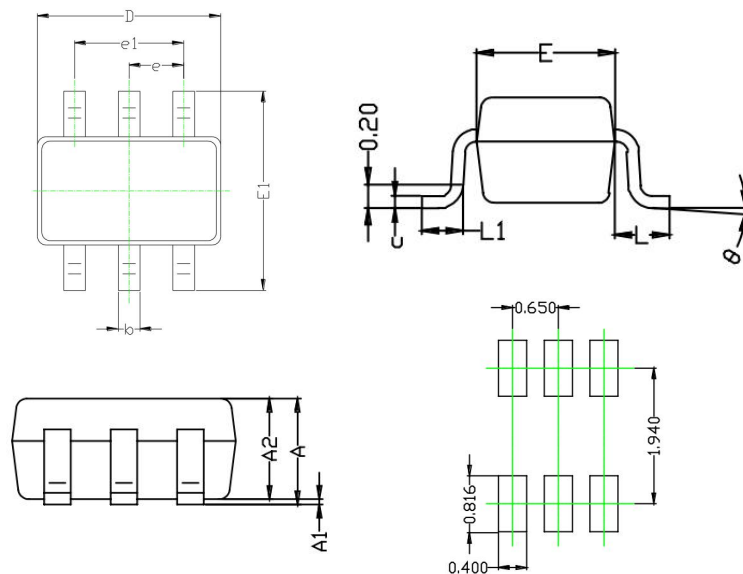
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	$I_R=100\mu\text{A}$	30			V
Reverse current	I_R	$V_R=25\text{V}$			2	μA
Forward voltage	V_F	$I_F=0.1\text{mA}$			240	mV
		$I_F=1\text{mA}$			320	mV
		$I_F=10\text{mA}$			400	mV
		$I_F=30\text{mA}$			500	mV
		$I_F=100\text{mA}$			1000	mV

TYPICAL CHARACTERISTICS



SOT-363 Package Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAT54ADW ~BAT54TW	SOT-363	Tape & Reel 3000pcs/7"Reel	8mm	4mm	Conductive	



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	0.900	-	1.000
A1	0.00	-	0.100
A2	0.900	-	1.000
b	0.150	-	0.350
c	0.100	-	0.150
D	2.000	-	2.200
E	1.150	-	1.350
E1	2.150	-	2.400
e	0.650 TYP.		
e1	1.200	-	1.400
L	0.525 R		
L1	0.260	-	0.460
e	0°	-	8°

1.Unit mm