BAT54ADW/BRW/CDW/SDW/TW/DW

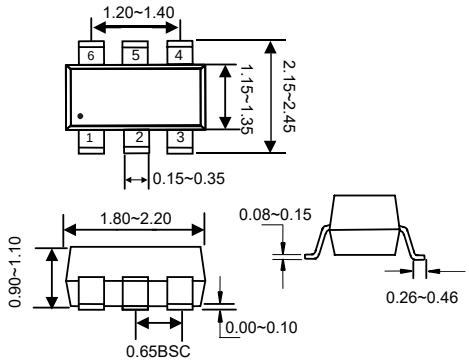
SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE	30 Volt	CURRENT	0.2Ampere

FEATURES

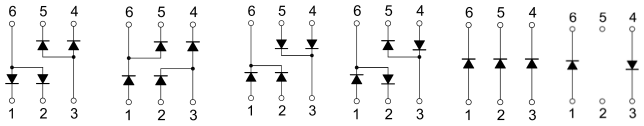
- Low Forward Voltage Drop
- Fast Switching
- Small Surface Mount Package
- Lead free in compliance with EU RoHS

SOT-363 Unit:mm



MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



BAT54ADW BAT54BRW BAT54CDW BAT54SDW BAT54TW BAT54DW

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Parameter	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	I_{FM}	200	mA
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	600	mA
Repetitive Peak Forward Current @ t≤1s, δ ≤0.5	I_{FRM}	300	mA
Power Dissipation	P_D	200	mW
Thermal Resistance from Junction to Ambient	$R_{\Theta JA}$	500	℃/W
Junction Temperature	T_j	125	℃
Storage Temperature	T_{stg}	-55~+125	℃

ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	30			V	I_R=100μA
Forward voltage	V_F			0.32 0.40 0.50 1	V V V V	I_F=1mA I_F=10mA I_F=30mA I_F=100mA
Reverse current	I_R			2	μA	V_R=25V
Diode capacitance	C_D			10	pF	V_R=1V,f=1MHz
Reverse recovery time	t_{rr}			5	ns	I_F=I_R=10mA,I_{RR}=0.1XI_R,RL=100Ω

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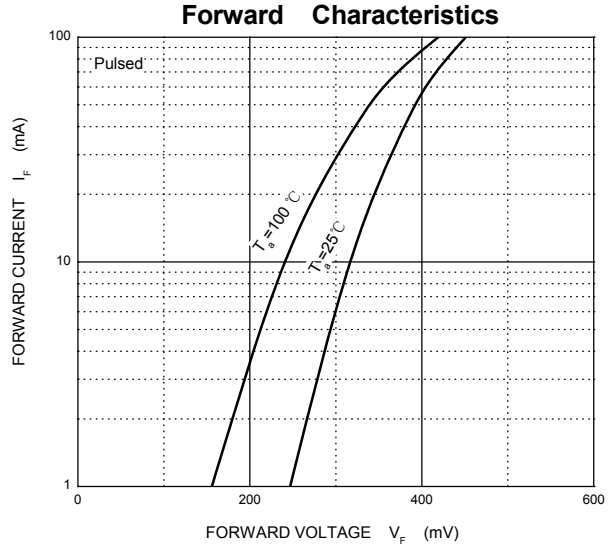
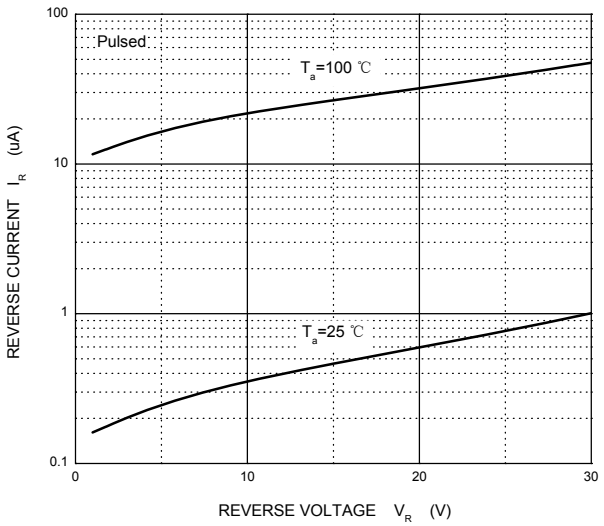
Typical Characteristics

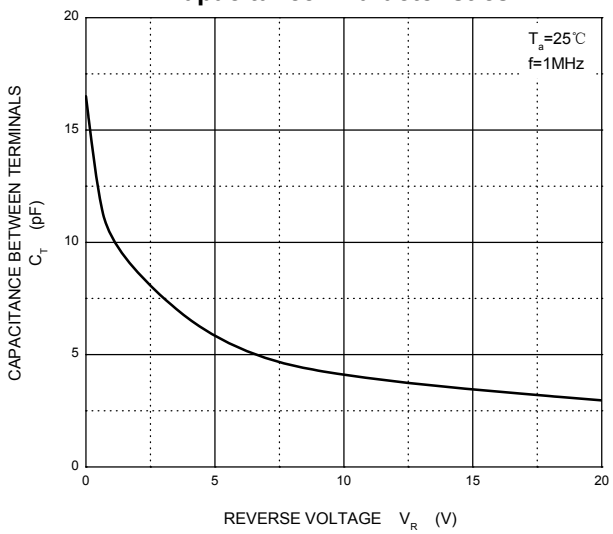
Forward Characteristics



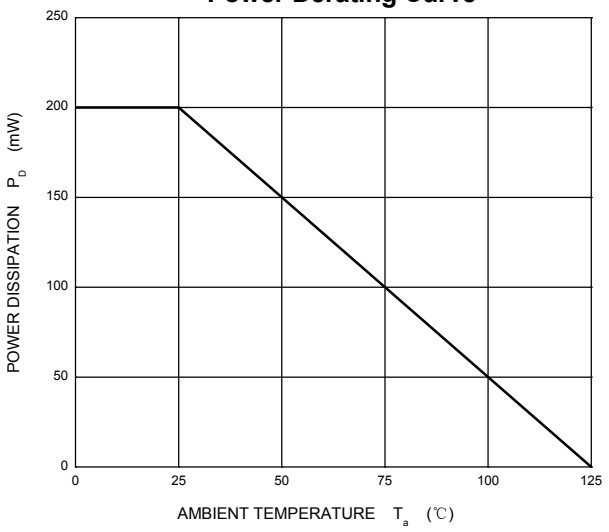
Reverse Characteristics



Capacitance Characteristics

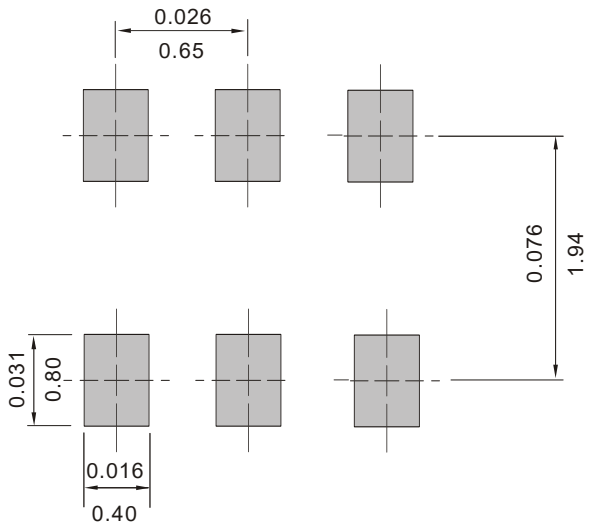


Power Derating Curve



MOUNTING PAD LAYOUT

SOT-363 Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
BAT54ADW/BRW/CDW/SDW/TW/DW	SOT-363	7 Inch	3000