



BAT54W/AW/CW/SW SCHOTTKY DIODE

SOT-323



FEATURES

Power dissipation

$$P_D: 150 \text{ mW (Tamb=25°C)}$$

Forward Current

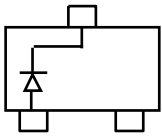
$$I_F: 200 \text{ mA}$$

Reverse Voltage

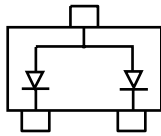
$$V_R: 30 \text{ V}$$

Operating and storage junction temperature range

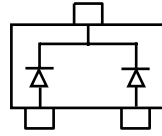
$$T_J, T_{stg}: -55°C \text{ to } +150°C$$



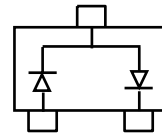
BAT54W Marking: KL5



BAT54AW Marking: KL6



BAT54CW Marking: KL7



BAT54SW Marking: KL8

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=100\mu A$	30		V
Reverse voltage leakage current	I_R	$V_R=25V$		2	μA
Forward voltage	V_F	$I_F=0.1mA$ $I_F=1mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$		240 320 400 500 1000	mV
Diode capacitance	C_D	$V_R=1V, f=1MHz$		10	pF
Reverse recovery time	t_{rr}	$I_F=10mA$ through $I_R=10mA$ to $I_R=1.0mA$ $R_C=100\Omega$		5	nS