/ Descriptions

SOT-23 Schottky diodes in a SOT-23 Plastic Package.

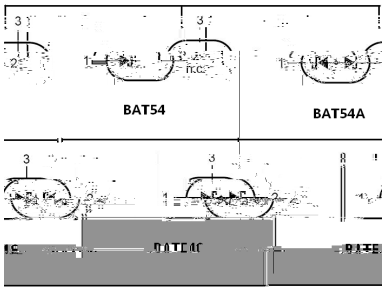
/ Features

Schottky diodes,HF Product.

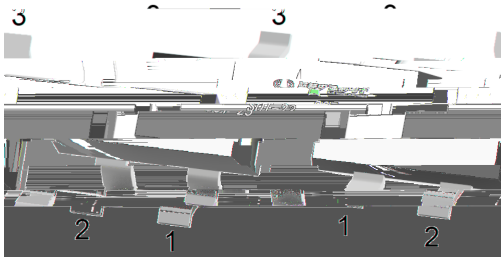
/ Applications

Low forward and reverse recovery times.

/ Equivalent Circuit



/ Pinning



PIN: See Equivalent Circuit.

/ Marking

Model	BAT54	BAT54A	BAT54C	BAT54S
Marking	HL4P	HL42	HL43	HL44

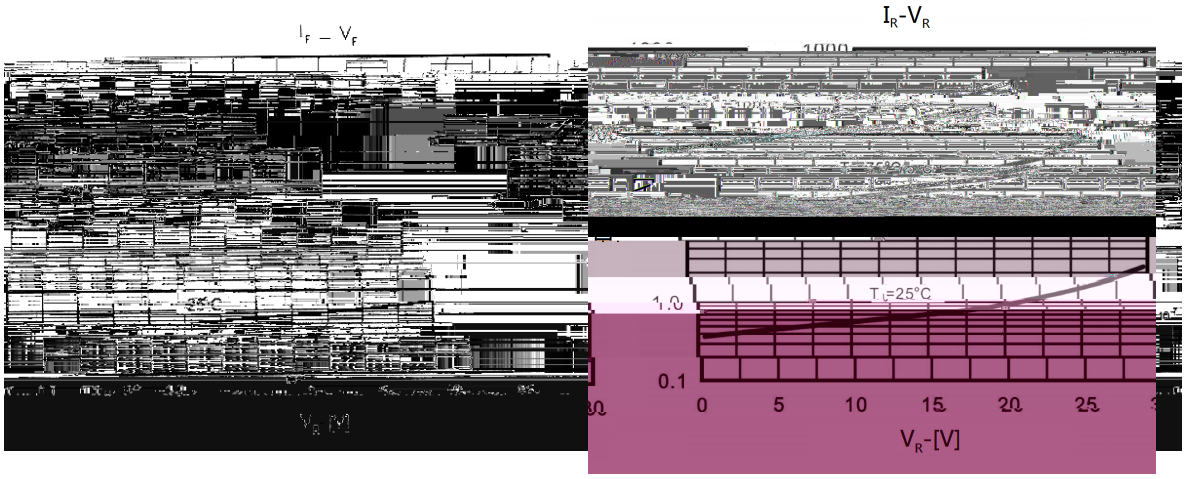
/ Absolute Maximum Ratings(Ta=25)

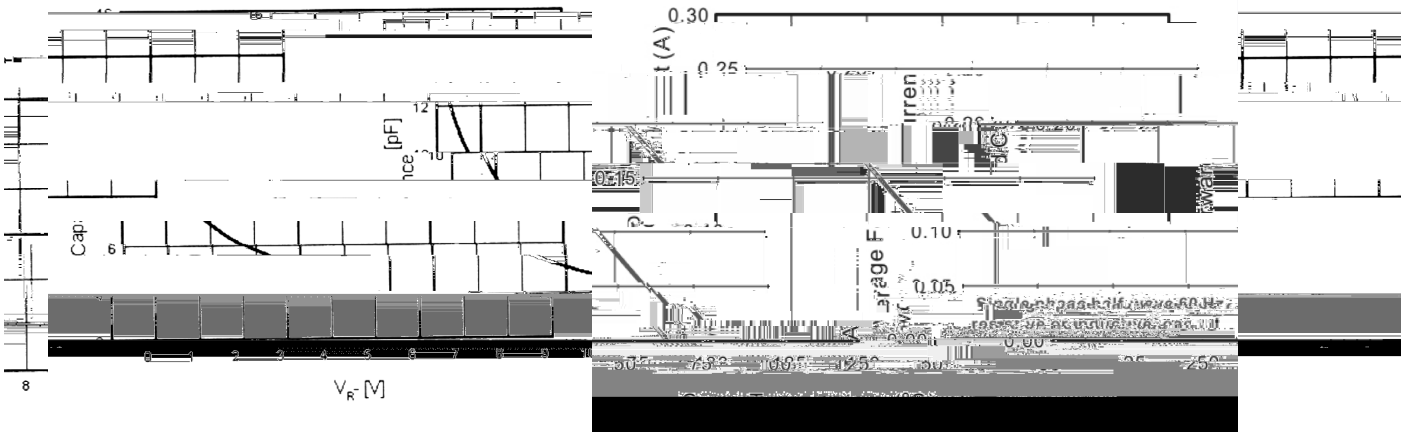
Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current	I_{FSM}	600	mA
Power Dissipation	P_D	290	mW
Thermal Resistance, Junction to Ambient	R_{JA}	430	/W
Junction Temperature	T_j	125	
Storage Temperature Range	T_{stg}	-55 150	

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_R	I_R=10 A	30			V
Forward Voltage	V_F	I_F=0.1mA			240	mV
		I_F=1.0mA			320	mV
		I_F=10mA			400	mV
		I_F=30mA			500	mV
		I_F=100mA			0.8	V
Instantaneous Reverse Current	I_R	V_R=25V			2.0	A
Total Capacitance	C_T	V_R=1.0V f=1.0MHz			10	pF
Reverse Recovery Time	t_{rr}	I_F=1_R=10mA I_{RR}=1.0mA R_L=100			5.0	ns

/ Electrical Characteristic Curve





/ Package Dimensions

