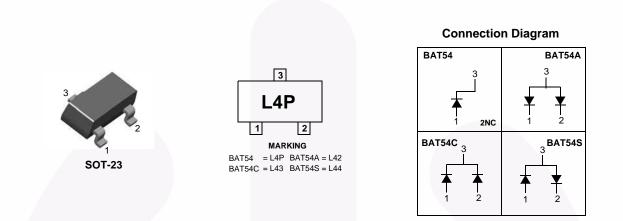


# BAT54/A/C/S Schottky Diodes



# Absolute Maximum Ratings \* $T_a = 25$ °C unless otherwise noted

Symbol	Parameter	Value	Unit	
V <sub>RRM</sub>	Maximum Repetitive Reverse Voltage	30	V	
I <sub>F(AV)</sub>	Average Rectified Forward Current	200	mA	
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second	600	mA	
T <sub>STG</sub>	Storage Temperature Range	-55 to +150	°C	
Τ <sub>J</sub>	Operating Junction Temperature	-55 to +150	°C	

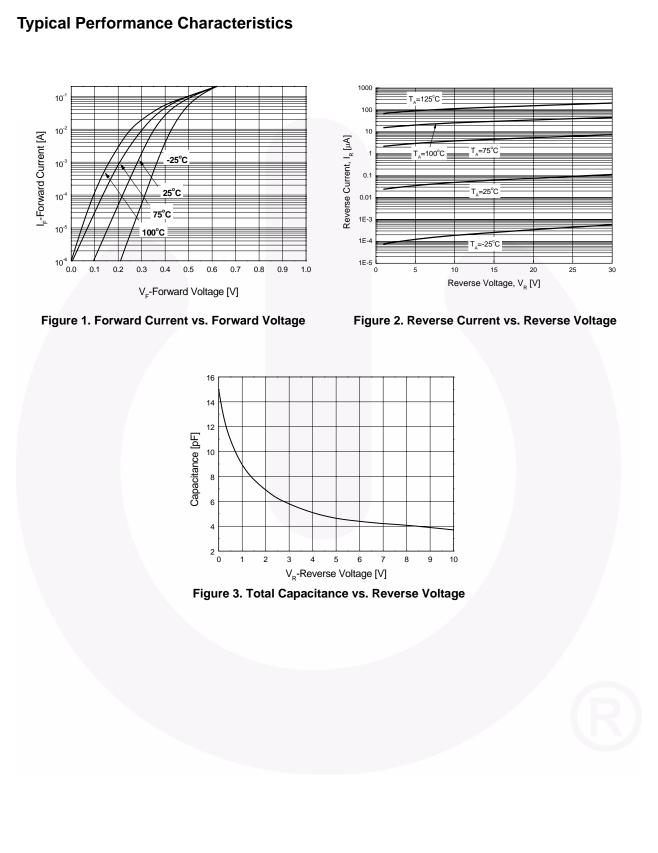
\* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

## **Thermal Characteristics**

Symbol	Parameter	Parameter Value	
PD	Power Dissipation	290	mW
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	430	°C/W

**Electrical Characteristics**  $T_C = 25^{\circ}C$  unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max.	Units
V <sub>R</sub>	Breakdown Voltage	I <sub>R</sub> = 10μA	30		V
V <sub>F</sub>	Forward Voltage	$I_{F} = 0.1mA$ $I_{F} = 1mA$ $I_{F} = 10mA$ $I_{F} = 30mA$ $I_{F} = 100mA$		240 320 400 500 0.8	mV mV mV mV V
I <sub>R</sub>	Reverse Leakage	V <sub>R</sub> = 25V		2	μA
CT	Total Capacitance	$V_{R} = 1V, f = 1.0MHz$		10	pF
t <sub>rr</sub>	Reverse Recovery Time	$I_F = I_R = 10$ mA, $I_{RR} = 1.0$ mA, $R_L = 100\Omega$		5.0	ns



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