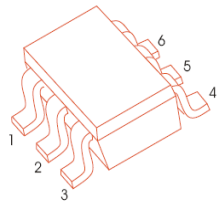
SOT-363 Plastic-Encapsulate Diodes

BAT54ADW /BAT54BRW /

BAT54CDW /BAT54SDW /BAT54TW

SCHOTTKY BARRIER DIODE ARRAYS

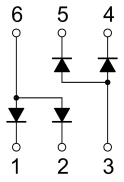
SOT-363



FEATURES

- Low Forward Voltage Drop
- Fast Switching
- Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Available in Lead Free Version

MARKING:



BAT54ADW
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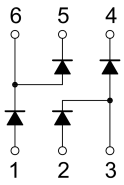

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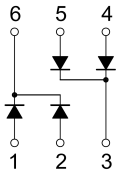

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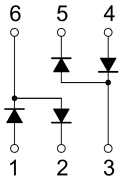

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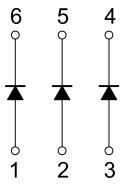

BAT54TW
MARKING: KLA

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
V_{RWM}	Peak Working Reverse Voltage		
V_R	DC Blocking Voltage		
I_O	Forward Continuous Current	200	mA
I_{FRM}	Repetitive Peak Forward Current	300	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @t≤1s	600	
P_D	Power Dissipation	200	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	500	℃/W
T_j	Junction Temperature	125	℃
T_{stg}	Storage Temperature	-55~+150	℃

ELECTRICAL CHARACTERISTICS(T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100μA	30			V
Reverse current	I_R	V_R=25V			2	μA
Forward voltage	V_F	I_F=1mA			320	mV
		I_F=10mA			400	
		I_F=30mA			500	
		I_F=100mA			1000	
Total capacitance	C_{tot}	V_R=1V,f=1MHz			10	pF
Reverse recovery time	t_{rr}	I_F= I_R=10mA, I_{rr}=0.1×I_R, R_L=100Ω			5	ns