

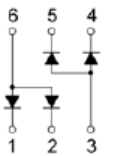
Dimensions in inches and (millimeters)

SCHOTTKY BARRIER DIODE ARRAYS

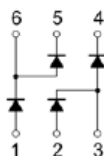
FEATURES

- Low Forward Voltage Drop
- Fast Switching
- Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection
- Available in Lead Free Version
- Pb-Free package is available
- RoHS product for packing code suffix "G"
- Halogen free product for packing code suffix "H"
- Moisture Sensitivity Level 1

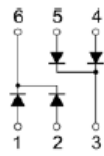
MARKING:



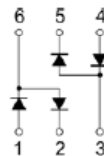
BAT54ADW
MARKING: KL6



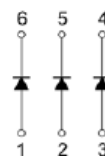
BAT54BRW
MARKING: KLB



BAT54CDW
MARKING: KL7



BAT54SDW
MARKING: KL8



BAT54TW
MARKING: KLA

Plastic-Encapsulate Diodes

Maximum Ratings ($T_a=25^\circ\text{C}$ unless otherwise noted)			
Parameter	Symbol	Limit	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	30	V
Peak Working Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_O	200	mA
Repetitive Peak Forward Current	I_{FRM}	300	mA
Non-repetitive Peak Forward Surge Current @ $t \leq 1\text{s}$	I_{FSM}	600	
Power Dissipation	P_D	200	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating Temperature	T_J	-55~+125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55~+150	$^\circ\text{C}$

Electrical Characteristics ($T_a=25^\circ\text{C}$ unless otherwise noted)					
Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse Voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	30	—	V
Reverse Current	I_R	$V_R=25\text{V}$	—	2	μA
Forward Voltage	V_F	$I_F=1\text{mA}$	—	320	mV
		$I_F=10\text{mA}$	—	400	
		$I_F=30\text{mA}$	—	500	
		$I_F=100\text{mA}$	—	1000	
Total capacitance	C_T	$V_R=1\text{V}$, $f=1\text{MHz}$	—	10	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$	—	5	ns