MSKSEMI















ESD

TVS

TSS

MOV

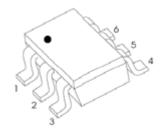
GDT

PLED

Broduct data sheet



SOT-363

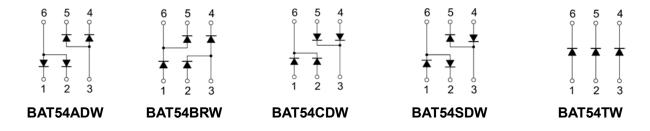


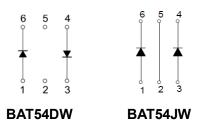
BAT54ADW /BAT54BRW / BAT54CDW /BAT54SDW /BAT54TW BAT54DW/BAT54JW

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





MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

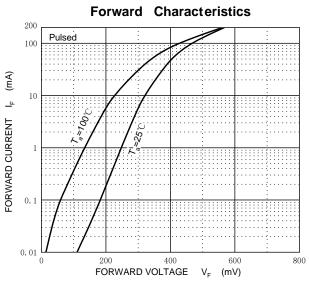
Symbol	Parameter	Value	Unit	
V _{RRM}	Repetitive Peak Reverse Voltage			
V _{RWM}	Peak Working Reverse Voltage	30	V	
V _R	DC Blocking Voltage			
lo	Forward Continuous Current	200	mA	
I _{FRM}	Repetitive Peak Forward Current	300		
I _{FSM}	Non-repetitive Peak Forward Surge Current @t=8.3ms	600	— mA	
P _D	Power Dissipation 200 mW		mW	
R _{OJA}	Thermal Resistance From Junction To Ambient 500 °C/W		°C/W	
Tj	Operating Junction Temperature Range	-40 ~ +125	°C	
T _{stg}	Storage Temperature Range	-55 ~ +150	°C	

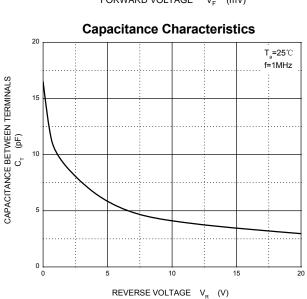


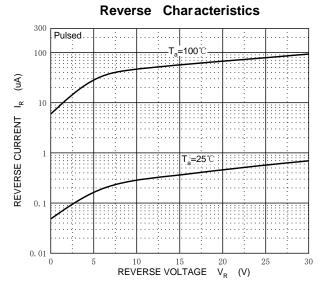


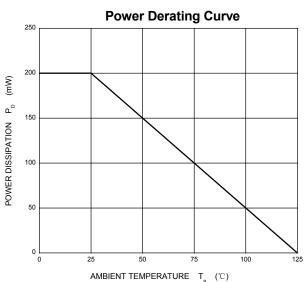
ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I _R =100μA	30			V
Reverse current	I _R	V _R =25V			2	μA
	VF	I _F =1mA			320	- mV
Forward voltage		I _F =10mA			400	
Forward voltage		I _F =30mA			500	
		I _F =100mA			1000	
Total capacitance	C _{tot}	V _R =1V,f=1MHz			10	pF
Reverse recovery time t_{rr} $I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \text{m}$		$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 \times I_R, R_L = 100 \Omega$			5	ns



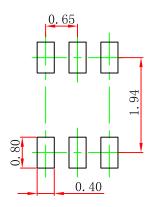






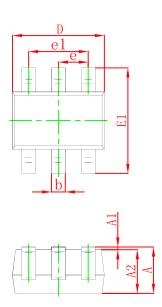


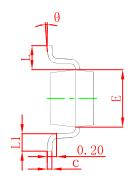
SOT-363



Note:

- 1.Controlling dimension:in millimeters. 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.





Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

REEL SPECIFICATION

P/N	PKG	QTY
BAT54XXW	SOT-363	3000



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