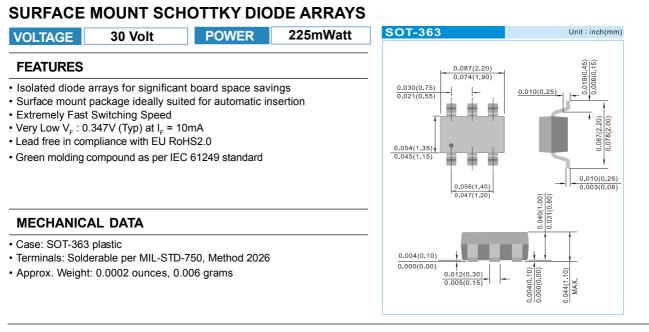


## BAT54TW / ADW / CDW / SDW / DW / BRW / TWP



### ABSOLUTE RATINGS (each diode)

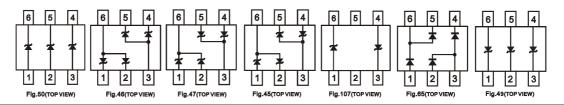
Parameter	Symbol	BAT54TW	BAT54ADW	BAT54CDW	BAT54SDW	BAT54DW	BAT54BRW	BAT54TWP	Units
Maximum Reverse Voltage	Vr		30						V
Peak Reverse Voltage	Vrrm		30					V	
Continuous Forward Current	١F		0.2					А	
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load per diode	I FSM	1					A		
Circuit Figure	-	Fig 50	Fig 46	Fig 47	Fig 45	Fig 107	Fig 65	Fig 49	-

#### THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	Ртот	225	mW
Typical Thermal Resistance, Junction to Ambient (Note 1)	Reja	550	°C/W
Typical Thermal Resistance, Junction to Lead (Note 2)	Rejl	220	°C/W
Junction Temperature Range	TJ	-55 to 125	°C
Storage Temperature Range	Тѕтс	-55 to 150	°C

#### NOTE:1.FR-4 Board Minimum pad.

2.Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area





### BAT54TW / ADW / CDW / SDW / DW / BRW / TWP

#### ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V(BR)	Ι <sub>R</sub> =100μΑ	30	-	-	V
Reverse Current	l r	VR=25 V	-	-	2	μA
Forward Voltage	VF	F=0.1mA   F=1mA   F=10mA   F=30mA   F=100mA	- - - -		0.24 0.32 0.4 0.5 0.6	V
Total Capacitance	Ст	V <sub>R</sub> =1V, f=1MHz	-	-	10	pF

TYPICAL CHARACTERISTIC CURVES

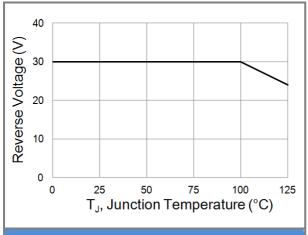
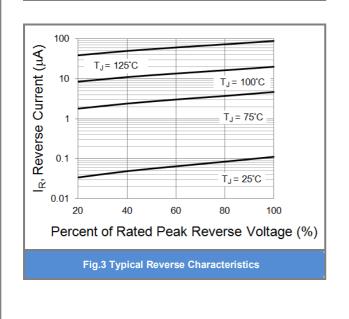
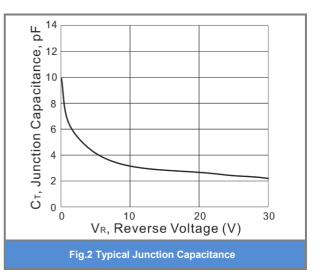
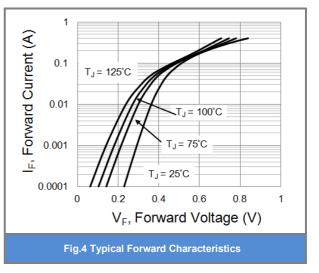


Fig.1 Operating Temperature Derating Curve







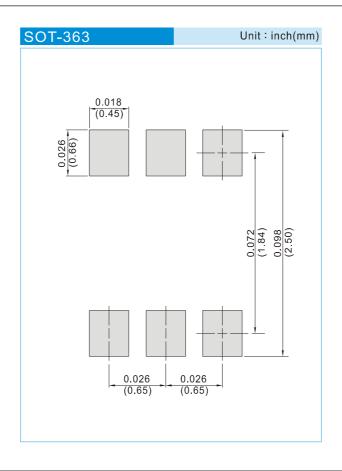


### BAT54TW / ADW / CDW / SDW / DW / BRW / TWP

### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version	
BAT54TW_R1_00001	SOT-363	3K / 7" Reel	L4	Halogen free	
BAT54ADW_R1_00001	SOT-363	3K / 7" Reel	L42	Halogen free	
BAT54CDW_R1_00001	SOT-363	3K / 7" Reel	L43	Halogen free	
BAT54SDW_R1_00001	SOT-363	3K / 7" Reel	L44	Halogen free	
BAT54DW_R1_00001	SOT-363	3K / 7" Reel	L41	Halogen free	
BAT54BRW_R1_00001	SOT-363	3K / 7" Reel	PN	Halogen free	
BAT54TWP_R1_00001	SOT-363	3K / 7" Reel	L4P	Halogen free	

#### MOUNTING PAD LAYOUT



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