



SURFACE MOUNT SCHOTTKY DIODE ARRAYS

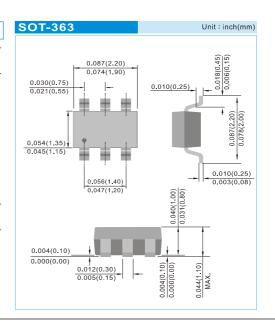
VOLTAGE 30 Volt POWER 225mWatt

FEATURES

- · Isolated diode arrays for significant board space savings
- · Surface mount package ideally suited for automatic insertion
- · Extremely Fast Switching Speed
- Very Low V_F : 0.347V (Typ) at I_F = 10mA
- Lead free in compliance with EU RoHS2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOT-363 plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0002 ounces, 0.006 grams



ABSOLUTE RATINGS (each diode)

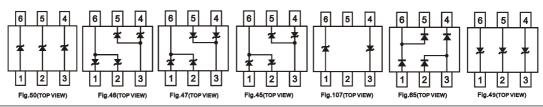
Parameter	Symbol	BAT54TW	BAT54ADW	BAT54CDW	BAT54SDW	BAT54DW	BAT54BRW	BAT54TWP	Units
Maximum Reverse Voltage	VR		30					V	
Peak Reverse Voltage	VRRM		30					V	
Continuous Forward Current	lf		0.2					А	
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load per diode	IFSM	1	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

THERMAL CHARACTERISTICS

Parameter		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 copper pad area



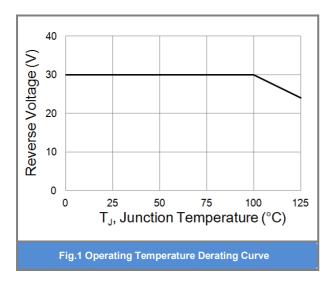


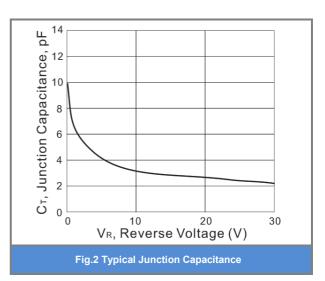


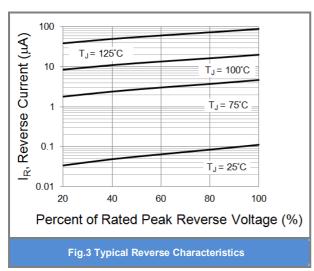
ELECTRICAL CHARACTERISTICS (each diode) (TA=25°C, unless otherwise noted)

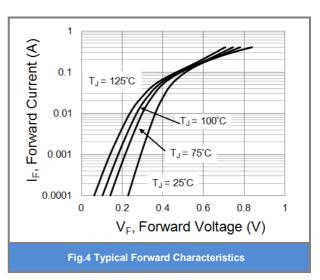
Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V(BR)	I R=100μA	30	-	-	V
Reverse Current	ΙR	V _R =25 V	-	-	2	μΑ
Forward Voltage	VF	I ==0.1mA I ==1mA I ==10mA I ==30mA I ==100mA	- - - -	- - - -	0.24 0.32 0.4 0.5 0.6	V
Total Capacitance	Ст	V _R =1V, f=1MHz	-	-	10	pF

TYPICAL CHARACTERISTIC CURVES









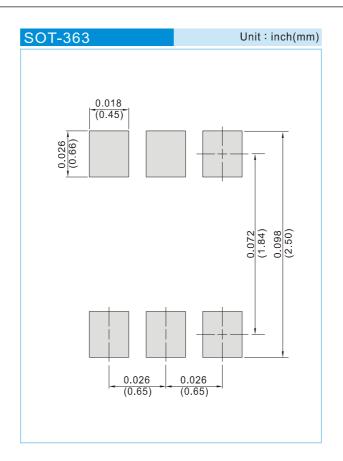




PART NO PACKING CODE VERSION

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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