



BAT54TW / ADW / CDW / SDW / DW

SURFACE MOUNT SCHOTTKY DIODE ARRAYS

VOLTAGE 30 Volts **POWER** 225mWatts

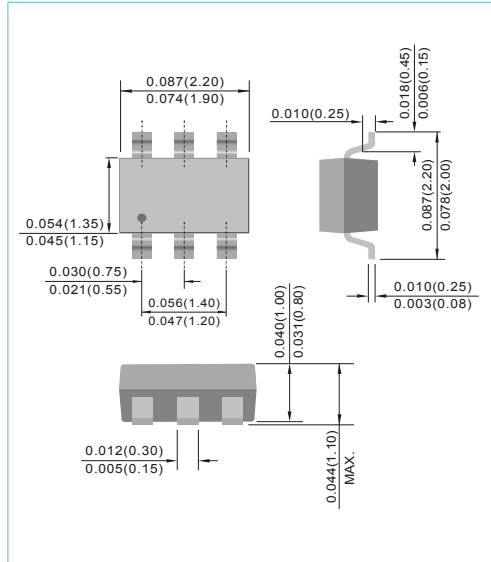
SOT-363 Unit : inch(mm)

FEATURES

- Isolated diode arrays for significant board space savings
- Surface mount package ideally suited for automatic insertion
- Extremely Fast Switching Speed
- Very Low VF: 0.347V (Typ) at IF = 10mA
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

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



ABSOLUTE RATINGS (each diode)

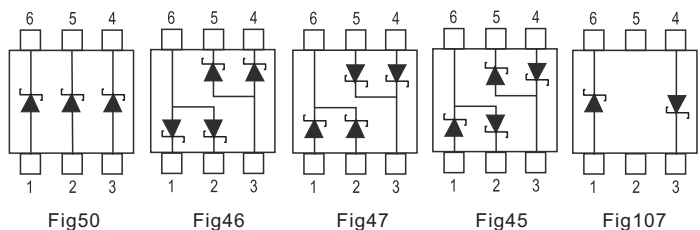
Parameter	Symbol	BAT54TW	BAT54ADW	BAT54CDW	BAT54SDW	BAT54DW	Units
Marking Code	-	L4	L42	L43	L44	L41	-
Maximum Reverse Voltage	V _R	30					V
Peak Reverse Voltage	V _{RRM}	30					V
Continuous Forward Current	I _F	0.2					A
Circuit Figure	-	Fig 50	Fig 46	Fig 47	Fig 45	Fig 107	-

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation (Note 1)	P _{TOT}	225	mW
Thermal Resistance, Junction to Ambient (Note 1)	R _{θJA}	550	°C/W
Thermal Resistance, Junction to Lead	R _{θJL}	220	°C/W
Junction Temperature	T _J	-55 to 125	°C
Storage Temperature	T _{STG}	-55 to 150	°C

NOTE:

- FR-4 Board Minimum pad.





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

Parameter	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=100 \mu A$	30			V
Reverse Current	I_R	$V_R=25 V$			2.0	μA
Forward Voltage	V_F	$I_F=0.1mA$ $I_F=1.0mA$ $I_F=10mA$ $I_F=30mA$ $I_F=100mA$			0.24 0.32 0.40 0.50 1.00	V
Total Capacitance	C_T	$V_R=1V, f=1.0MHz$			10	pF

ELECTRICAL CHARACTERISTICS CURVES

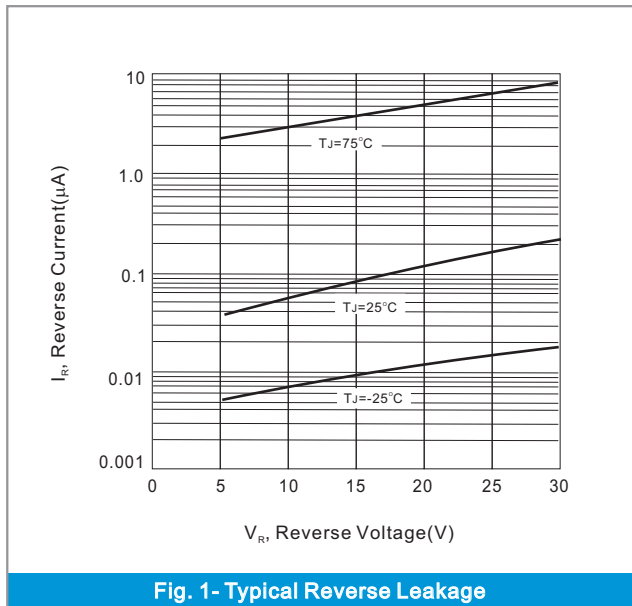


Fig. 1- Typical Reverse Leakage

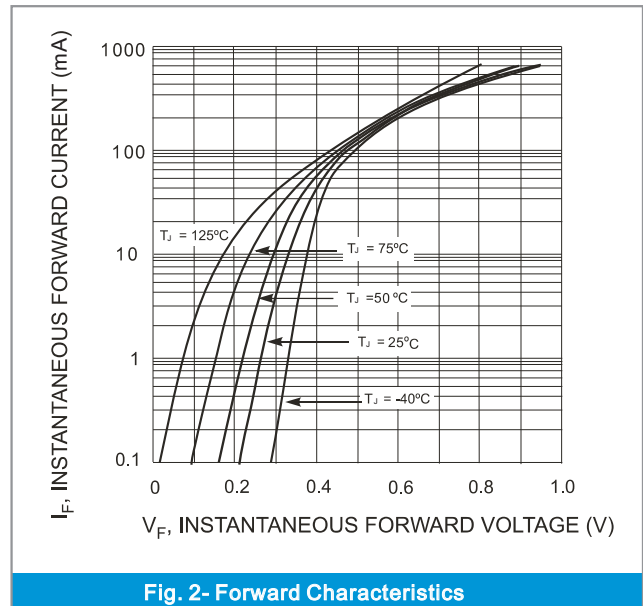


Fig. 2- Forward Characteristics

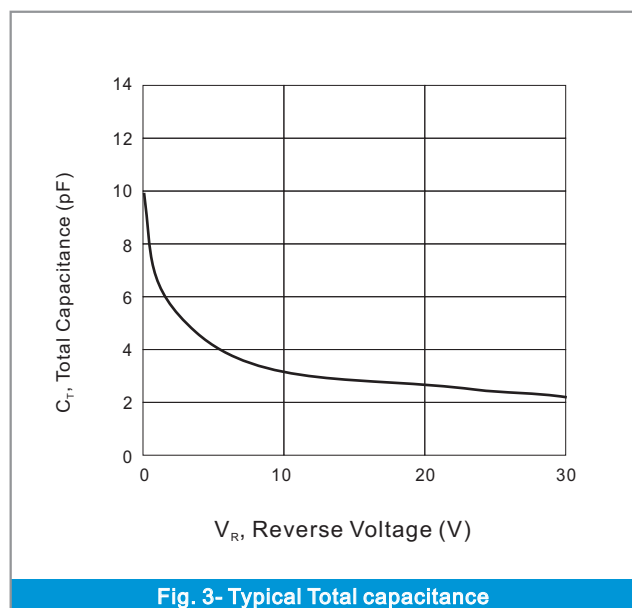
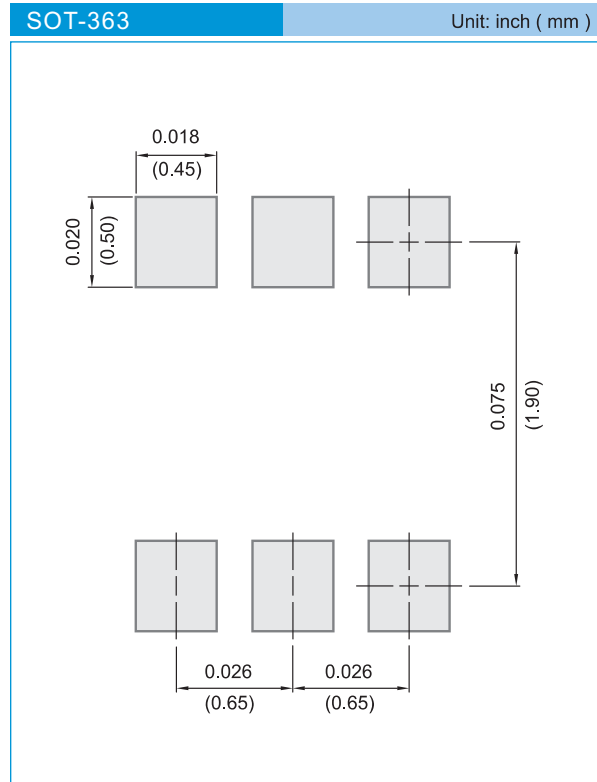


Fig. 3- Typical Total capacitance



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel



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Part No_packing code_Version

BAT54TW_R1_00001

BAT54TW_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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