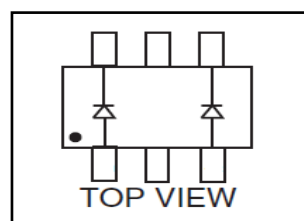
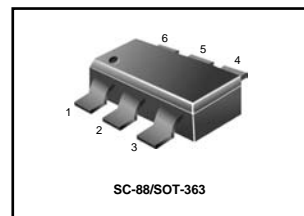


## SURFACE MOUNT SCHOTTKY BARRIER DIODE ARRAY

### LBAT54DW1T1G S-LBAT54DW1T1G

These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss. Miniature surface mount package is excellent for hand held and portable applications where space is limited.

- Extremely Fast Switching Speed
- Low Forward Voltage — 0.35 Volts (Typ) @  $I_F = 10$  mAdc
- We declare that the material of product compliance with RoHS requirements.
- S - Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable.



#### DEVICE MARKING AND ORDERING INFORMATION

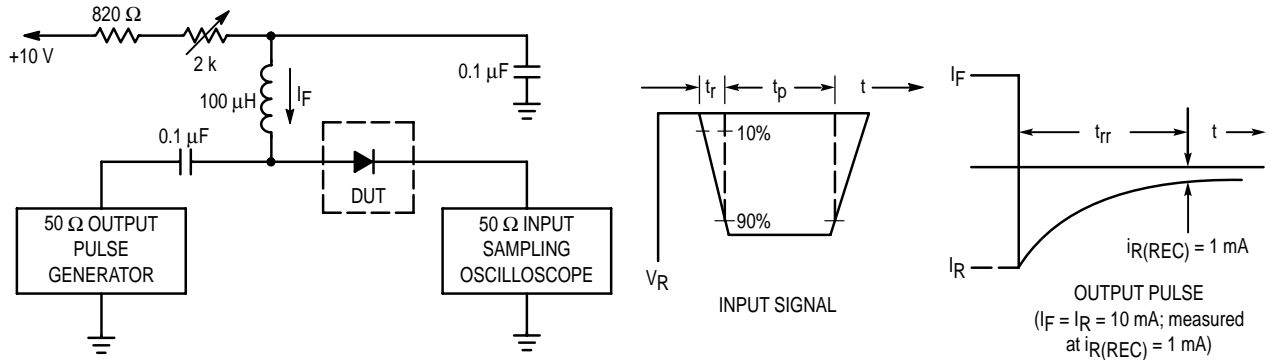
Device	Marking	Shipping
LBAT54DW1T1G S-LBAT54DW1T1G	SV3	3000/Tape&Reel
LBAT54DW1T3G S-LBAT54DW1T3G	SV3	10000/Tape&Reel

#### MAXIMUM RATINGS ( $T_J = 125^\circ\text{C}$ unless otherwise noted)

Rating	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	Volts
Forward Power Dissipation @ $T_A = 25^\circ\text{C}$ Derate above $25^\circ\text{C}$	$P_D$	225 2.0	mW mW/ $^\circ\text{C}$
Forward Current (DC)	$I_F$	200 Max	mA
Junction Temperature	$T_J$	125 Max	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	-55 to +150	$^\circ\text{C}$

#### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted) (EACH DIODE)

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage ( $I_R = 10 \mu\text{A}$ )	$V_{(\text{BR})R}$	30	—	—	Volts
Total Capacitance ( $V_R = 1.0 \text{V}$ , $f = 1.0 \text{MHz}$ )	$C_T$	—	—	10	pF
Reverse Leakage ( $V_R = 25 \text{V}$ )	$I_R$	—	0.5	2.0	$\mu\text{Adc}$
Forward Voltage ( $I_F = 0.1 \text{mAdc}$ )	$V_F$	—	0.22	0.24	Vdc
Forward Voltage ( $I_F = 30 \text{mAdc}$ )	$V_F$	—	0.41	0.5	Vdc
Forward Voltage ( $I_F = 100 \text{mAdc}$ )	$V_F$	—	0.52	1.0	Vdc
Reverse Recovery Time ( $I_F = I_R = 10 \text{mAdc}$ , $I_{R(\text{REC})} = 1.0 \text{mAdc}$ ) Figure 1	$t_{rr}$	—	—	5.0	ns
Forward Voltage ( $I_F = 1.0 \text{mAdc}$ )	$V_F$	—	0.29	0.32	Vdc
Forward Voltage ( $I_F = 10 \text{mAdc}$ )	$V_F$	—	0.35	0.40	Vdc
Forward Current (DC)	$I_F$	—	—	200	mAdc
Repetitive Peak Forward Current	$I_{\text{FRM}}$	—	—	300	mAdc
Non-Repetitive Peak Forward Current ( $t < 1.0 \text{s}$ )	$I_{\text{FSM}}$	—	—	600	mAdc



- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current ( $I_F$ ) of 10 mA.  
 2. Input pulse is adjusted so  $I_{R(peak)}$  is equal to 10 mA.  
 3.  $t_p \gg t_{rr}$

Fig.1 RECOVERY TIME EQUIVALENT TEST CIRCUIT

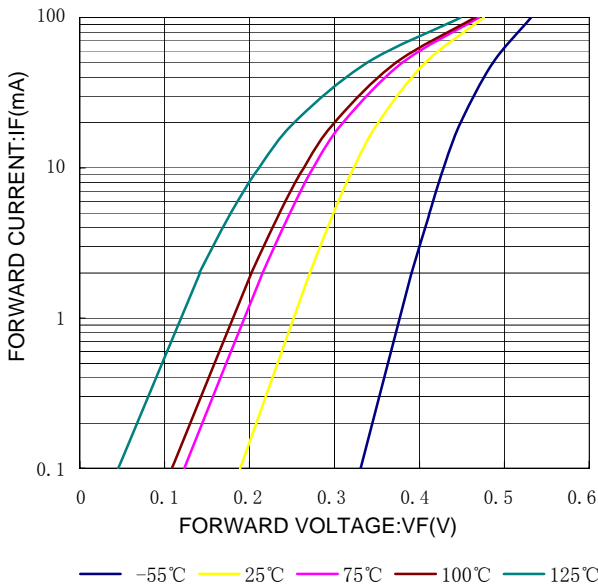


Fig.2 FORWARD CHARACTERISTICS

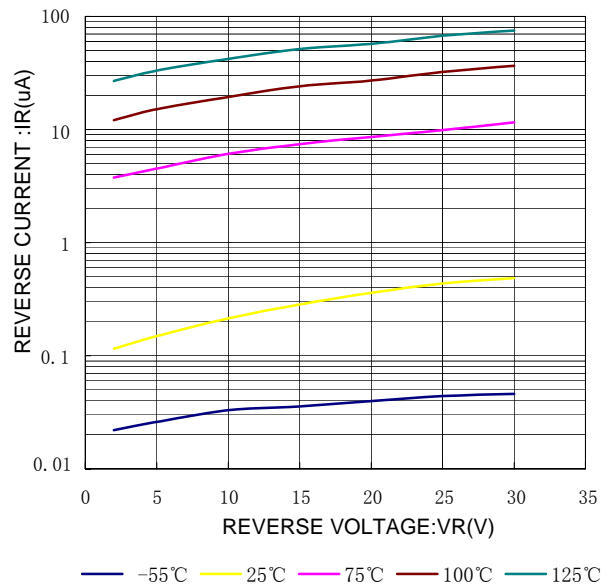


Fig.3 REVERSE CHARACTERISTICS

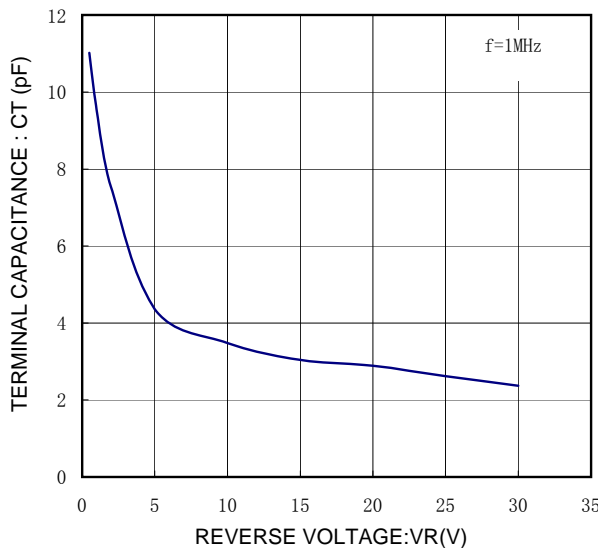


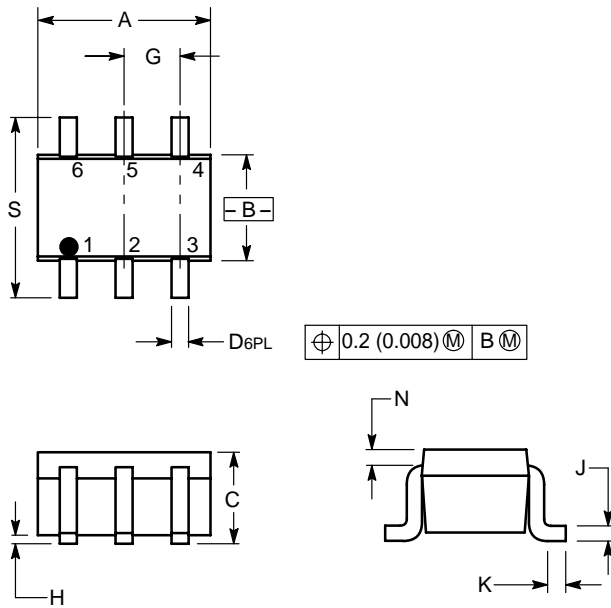
Fig.4 VR-CT CHARACTERISTICS

# LBAT54DW1T1G , S-LBAT54DW1T1G

SC-88/SOT-363

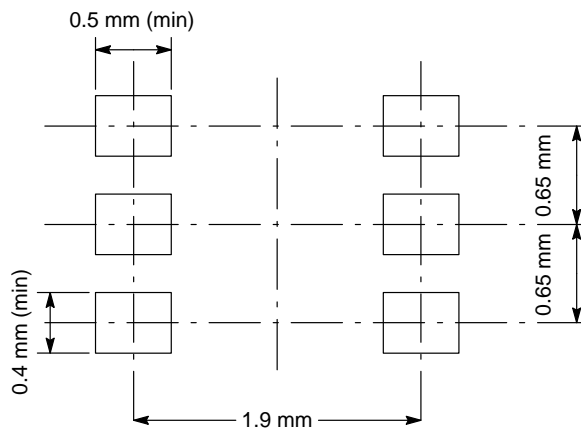
**NOTES:**

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.



DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.071	0.087	1.80	2.20
B	0.045	0.053	1.15	1.35
C	0.031	0.043	0.80	1.10
D	0.004	0.012	0.10	0.30
G	0.026 BSC		0.65 BSC	
H	---	0.004	---	0.10
J	0.004	0.010	0.10	0.25
K	0.004	0.012	0.10	0.30
N	0.008 REF		0.20 REF	
S	0.079	0.087	2.00	2.20

- PIN 1. EMITTER 2
- 2. BASE 2
- 3. COLLECTOR 1
- 4. EMITTER 1
- 5. BASE 1
- 6. COLLECTOR 2



单击下面可查看定价，库存，交付和生命周期等信息

[>>LRC\(乐山无线电\)](#)