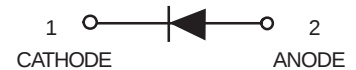
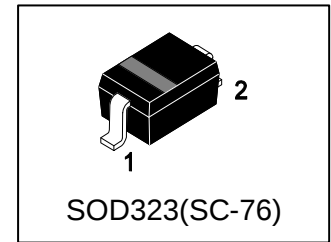


S-LBAS21HT1G

High Voltage Switching Diode

1. FEATURES

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.



2. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
S-LBAS21HT1G	JS	3000/Tape&Reel
S-LBAS21HT3G	JS	13000/Tape&Reel

3. MAXIMUM RATINGS(Ta = 25°C)

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	VR	250	V
Repetitive Peak Reverse Voltage	VRRM	250	V
Peak Forward Current	IF	200	mA
Repetitive Peak Forward Surge Current (tp=1ms, δ=0.25)	IFRM	625	mA
Non-Repetitive Peak Forward Surge Current (tp =1μs) (tp =100μs) (tp =10ms)	IFSM	9 3 1.7	A
Junction Temperature Range	TJ	-55~+150	°C
Storage Temperature Range	Tstg	-55~+150	°C

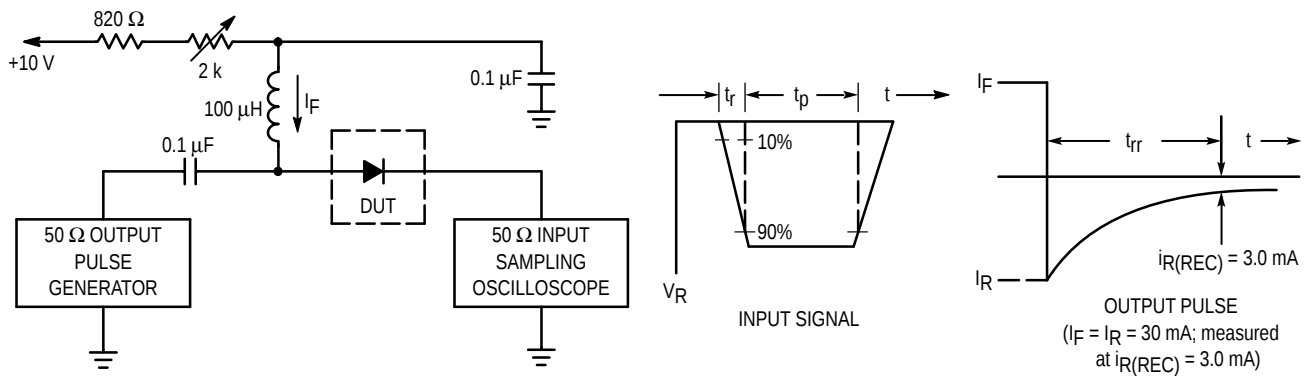
4. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Total Device Dissipation FR– 4 Board, (Note 1) TA = 25°C Derate above 25°C	PD	287 2.3	mW mW/°C
Thermal Resistance, Junction to Ambient	RθJA	435	°C/W

1. 30.0mm×25.0mm×1.6mm(FR4), Copper foil thickness 35μm;

5. ELECTRICAL CHARACTERISTICS (Ta= 25°C)

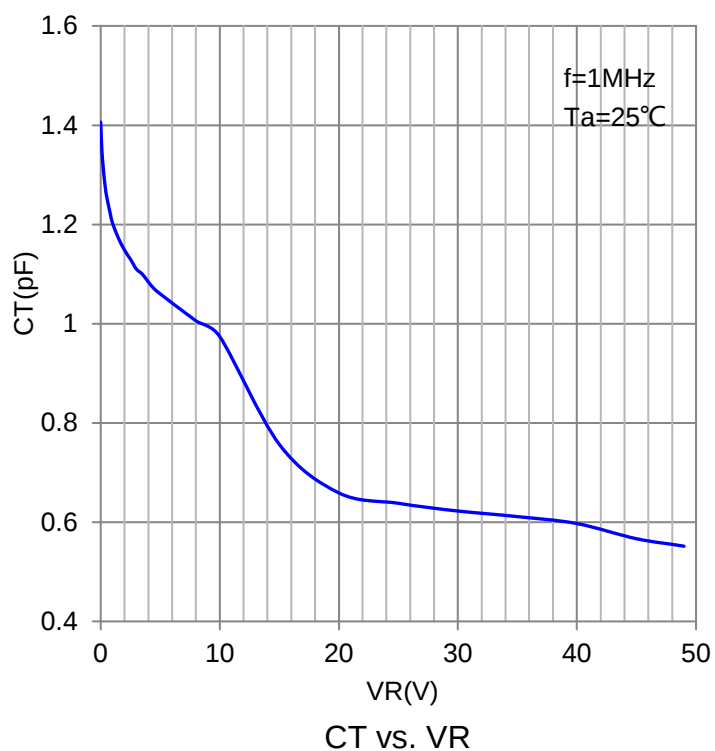
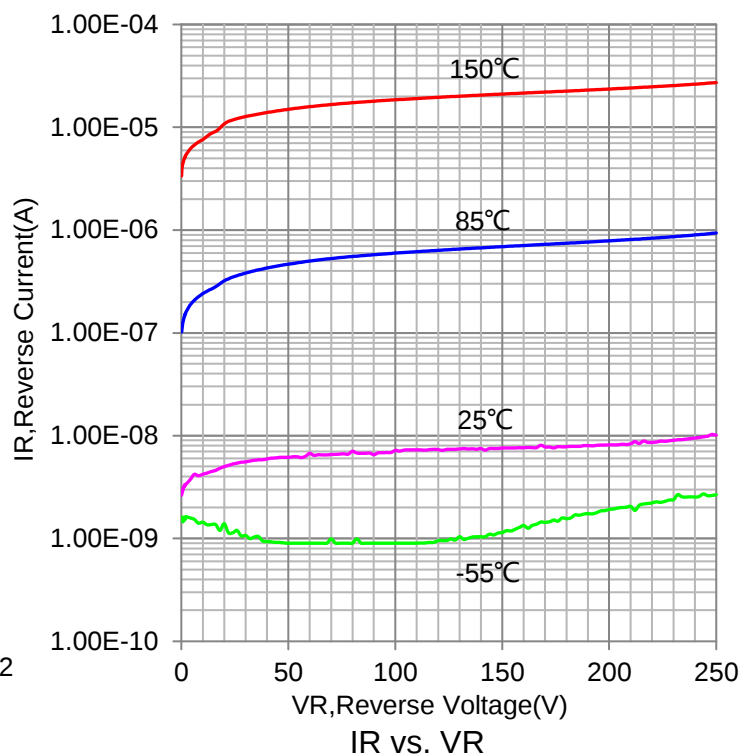
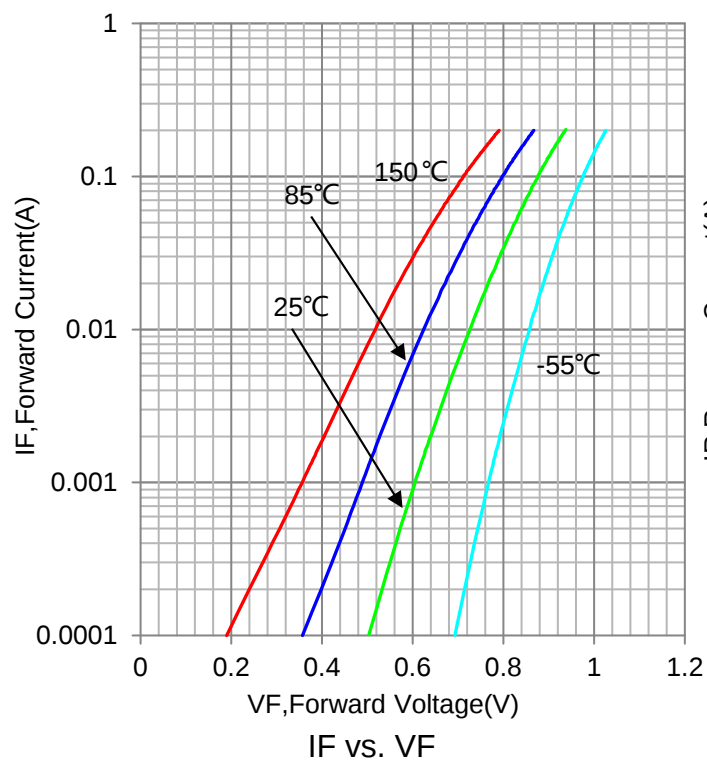
CHARACTERISTICS	Symbol	Min	Max	Unit
Reverse Voltage Leakage Current (VR=200V) (VR=200V, TJ = 150°C)	IR	- -	0.1 100	μA
Reverse Breakdown Voltage (IBR = 100 μA)	VBR	250	-	V
Forward voltage (IF =100mA) (IF =200mA)	VF	- -	1000 1250	mV
Diode capacitance (f=1MHz, VR =0)	Cd	-	5	pF
Reverse Recovery Time (IF = IR = 30mA, RL = 100 Ω)	Trr	-	50	ns



- Notes: 1. A 2.0 kΩ variable resistor adjusted for a Forward Current (IF) of 30 mA.
2. Input pulse is adjusted so IR(peak) is equal to 30 mA.
3. tp >> trr

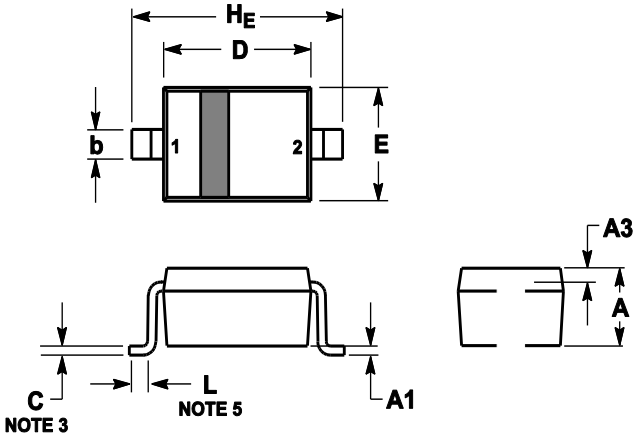
Figure 1. Recovery Time Equivalent Test Circuit

6.ELECTRICAL CHARACTERISTICS CURVES



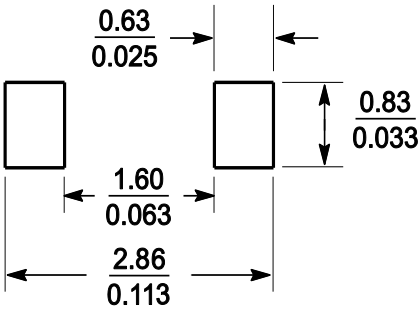
7.OUTLINE AND DIMENSIONS

- Notes:
- 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 - 2. CONTROLLING DIMENSION: MILLIMETERS.
 - 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
 - 4. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.8	0.9	1	0.031	0.035	0.04
A1	0	0.05	0.1	0	0.002	0.004
A3	0.15REF			0.006REF		
b	0.25	0.32	0.4	0.01	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.6	1.7	1.8	0.062	0.066	0.07
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.3	2.5	2.7	0.09	0.098	0.105

8.SOLDERING FOOTPRINT



DISCLAIMER

- Curve guarantee in the specification. The curve of test items with electric parameter is used as quality guarantee. The curve of test items without electric parameter is used as reference only.
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- All information contained in this document is current as of the issuing date and subject to change without any prior notice. Before purchasing or using LRC's Products, please confirm the latest information with a LRC sales representative.