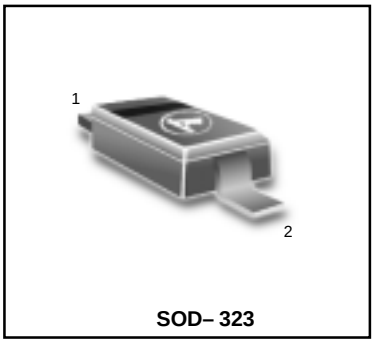
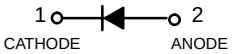
SCHOTTKY BARRIER DIODE

LRB551V-30T1G
S-LRB551V-30T1G

●APPLICATIONS

1) High-frequency rectification and Switching regulators





●FEATURES

1) Small surface mounting type.
2) Ultra low VF(VF=0.45V Typ. at 0.5A)
3) High reliability.
4) We declare that the material of product compliant with RoHS requirements and Halogen Free.
5) 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
LRB551V-30T1G	D	3000/Tape&Reel
LRB551V-30T3G	D	10000/Tape&Reel

●MAXIMUM RATINGS(Ta = 25℃)

Parameter	Symbol	Limits	Unit
Peak reverse voltage	V_{RM}	30	V
DC reverse voltage	V_R	20	V
Mean rectifying current	I_O	0.5	A
Peak forward surge current(Note1)	I_{FSM}	2	A
Junction temperature	T_J	125	°C
Storage Temperature Range	Tstg	–40 to +125	°C

1. 60Hz for 1cycle.

●ELECTRICAL CHARACTERISTICS (Ta= 25℃)

(T_A = 25°C unless otherwise noted, VF = 0.9 V Max. @ IF = 10 mA for all types)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	–	–	0.36	V	I_F=100mA
	V_{F2}	–	–	0.54	V	I_F=500mA
Reverse current	I_R	–	–	100	μA	V_R=20V

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ELECTRICAL CHARACTERISTIC CURVES

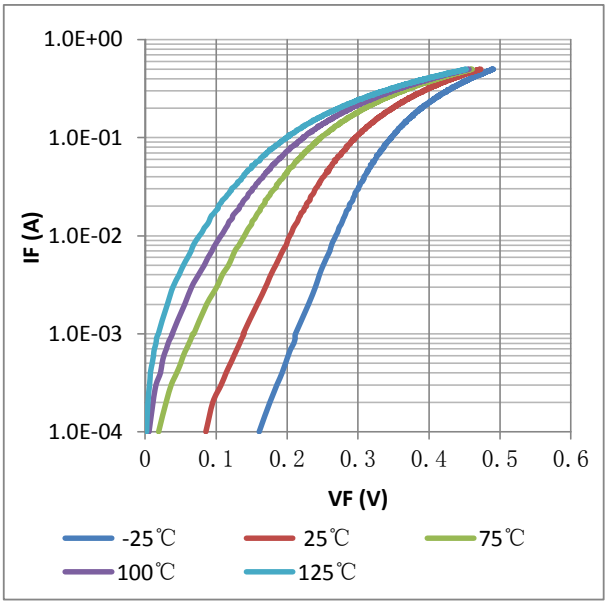

Fig 1. Forward character

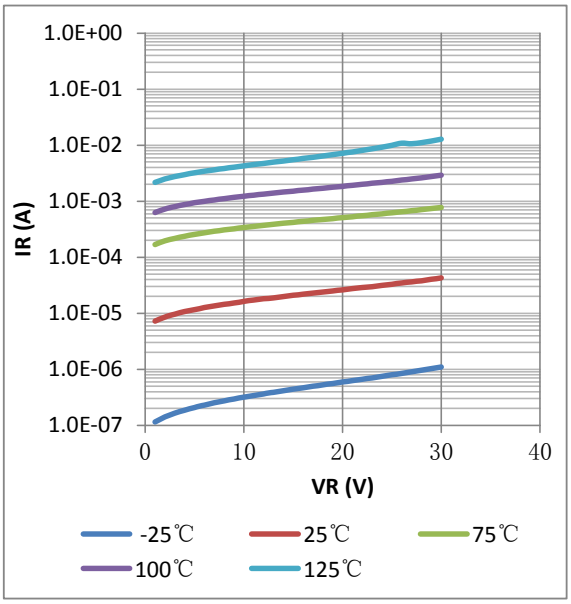

Fig 2. Reverese character

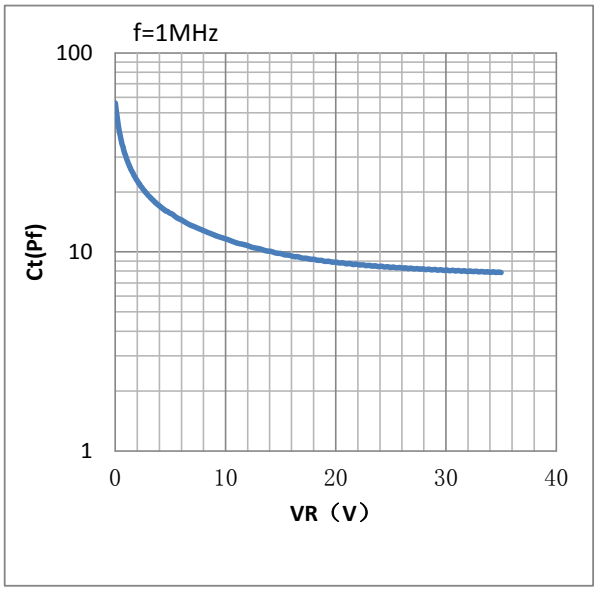

Fig 3. Capacitance character

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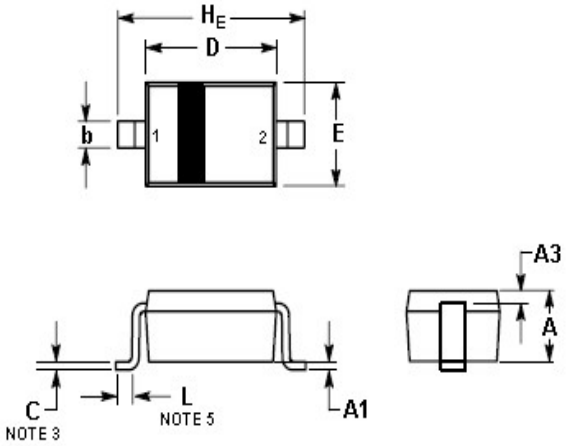

NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. LEAD THICKNESS SPECIFIED PER L/F DRAWING WITH SOLDER PLATING.
4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS.
5. DIMENSION L IS MEASURED FROM END OF RADIUS.

	MILLIMETERS			INCHES		
DIM	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.90	1.00	0.031	0.035	0.040
A1	0.00	0.05	0.10	0.000	0.002	0.004
A3		0.15 REF			0.006 REF	
b	0.25	0.32	0.4	0.010	0.012	0.016
C	0.089	0.12	0.177	0.003	0.005	0.007
D	1.60	1.70	1.80	0.062	0.066	0.070
E	1.15	1.25	1.35	0.045	0.049	0.053
L	0.08			0.003		
H_E	2.30	2.50	2.70	0.090	0.098	0.105

SOLDERING FOOTPRINT*