SCHOTTKY BARRIER DIODE

LRB751CS- 40T5G
S-LRB751CS- 40T5G

SOD-923

●Applications

Low current rectification

●Features

Extremelysmall surface mounting type. (SOD923)

Low V_F

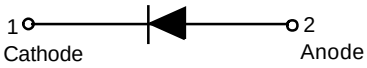
High reliability.

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.

●Construction

Silicon epitaxial planar



DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
LRB751CS-40T5G S-LRB751CS-40T5G	5	8000/Tape&Reel

●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	30	V
Average rectified forward current	Io	30	mA
Forward current surge peak（60Hz･1cyc）	I_{FSM}	200	mA
Junction temperature	Tj	125	℃
Storage temperature	Tstg	-40 to +125	℃

●Electrical characteristic (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F	-		0.37	V	I_F=1mA
Reverse current	I_R	-		0.5	μA	V_R=30V
Capacitance between terminals	Ct	-	2	-	pF	V_R=1V , f=1MHz

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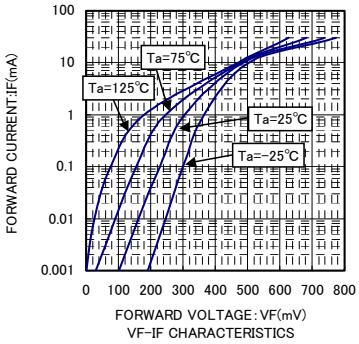
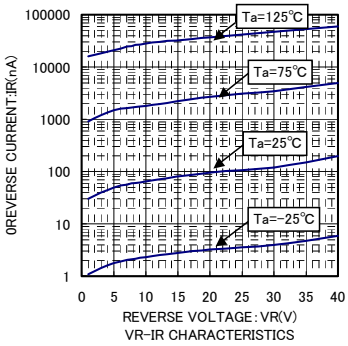
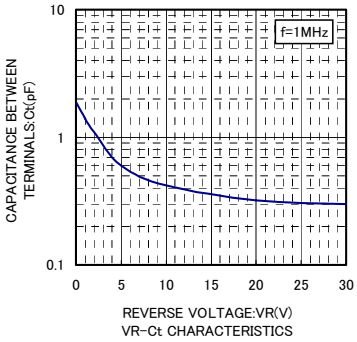
●Electrical characteristic curves



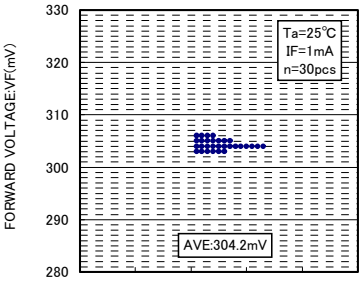
VF-IF CHARACTERISTICS



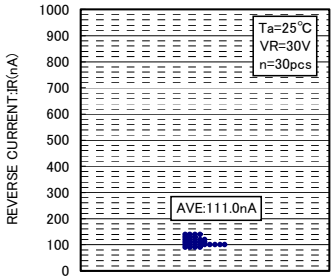
VR-IR CHARACTERISTICS



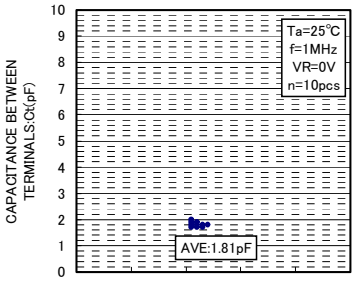
VR-Ct CHARACTERISTICS



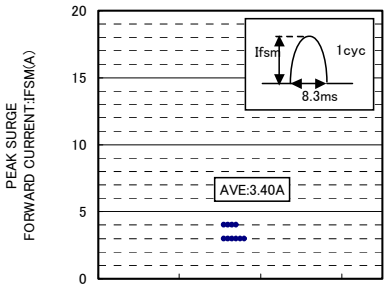
VF DISPERSION MAP



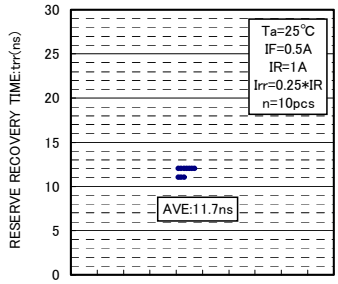
IR DISPERSION MAP



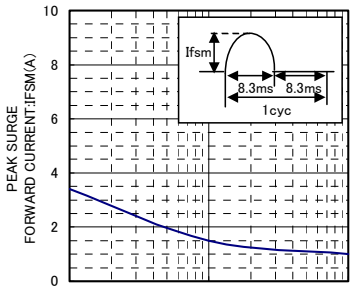
Ct DISPERSION MAP



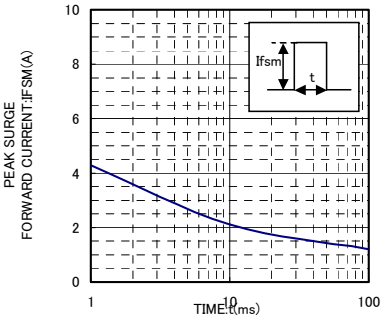
IFSM DISRESION MAP



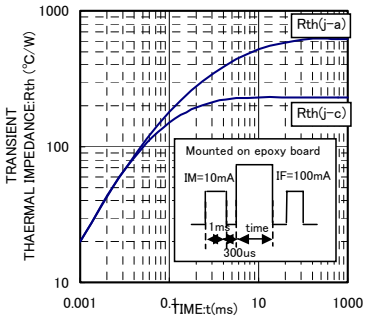
trr DISPERSION MAP



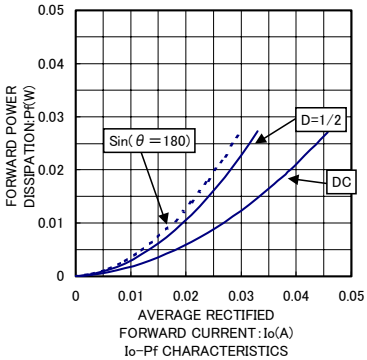
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

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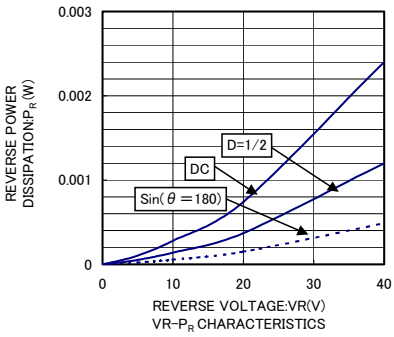
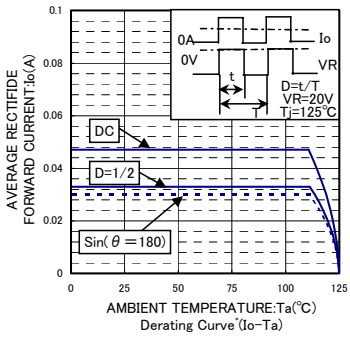
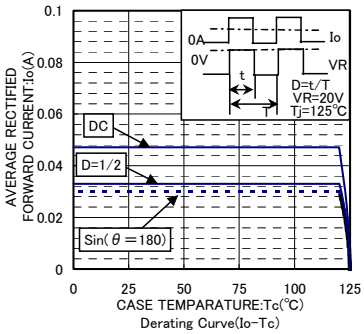
Electrical characteristic curves (Ta=25°C)







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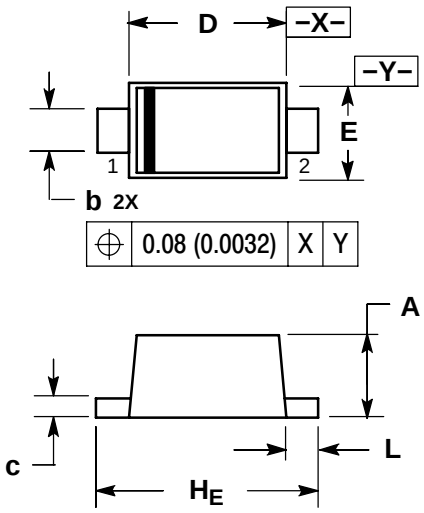

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.34	0.39	0.43	0.013	0.015	0.017
b	0.15	0.20	0.25	0.006	0.008	0.010
c	0.07	0.12	0.17	0.003	0.005	0.007
D	0.75	0.80	0.85	0.030	0.031	0.033
E	0.55	0.60	0.65	0.022	0.024	0.026
H_E	0.95	1.00	1.05	0.037	0.039	0.041
L	0.05	0.10	0.15	0.002	0.004	0.006